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United States  
Department of  
Agriculture

Soil  
Conservation  
Service

Salt Lake City  
Utah



# WATER SUPPLY OUTLOOK FOR UTAH

in Cooperation with Utah State Department  
of Natural Resources



March 1, 1983



## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent of surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1,900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*COVER PHOTO: FRESH POWDER SNOW ON ELEPHANT MOUNTIAN, NEAR THE WEST FORK OF HYALITE CREEK, IN MONTANA.*

### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

<u>STATE</u>	<u>ADDRESS</u>
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mexico)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4418 Federal Bldg., 125 South State St., Salt Lake City, Utah 84147
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 -- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 -- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 -- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.

# **WATER SUPPLY OUTLOOK FOR UTAH**

**and  
FEDERAL-STATE-PRIVATE COOPERATIVE SNOW SURVEYS**

Issued by

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|||||

Released by

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SALT LAKE CITY, UTAH**

In Cooperation with

<b>UTAH STATE DEPARTMENT OF NATURAL RESOURCES</b>	
<b>DEE C. HANSEN</b>	<b>DANIEL F. LAWRENCE</b>
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Report prepared by Snow Survey Staff

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# PROSPECTIVE WATER SUPPLIES

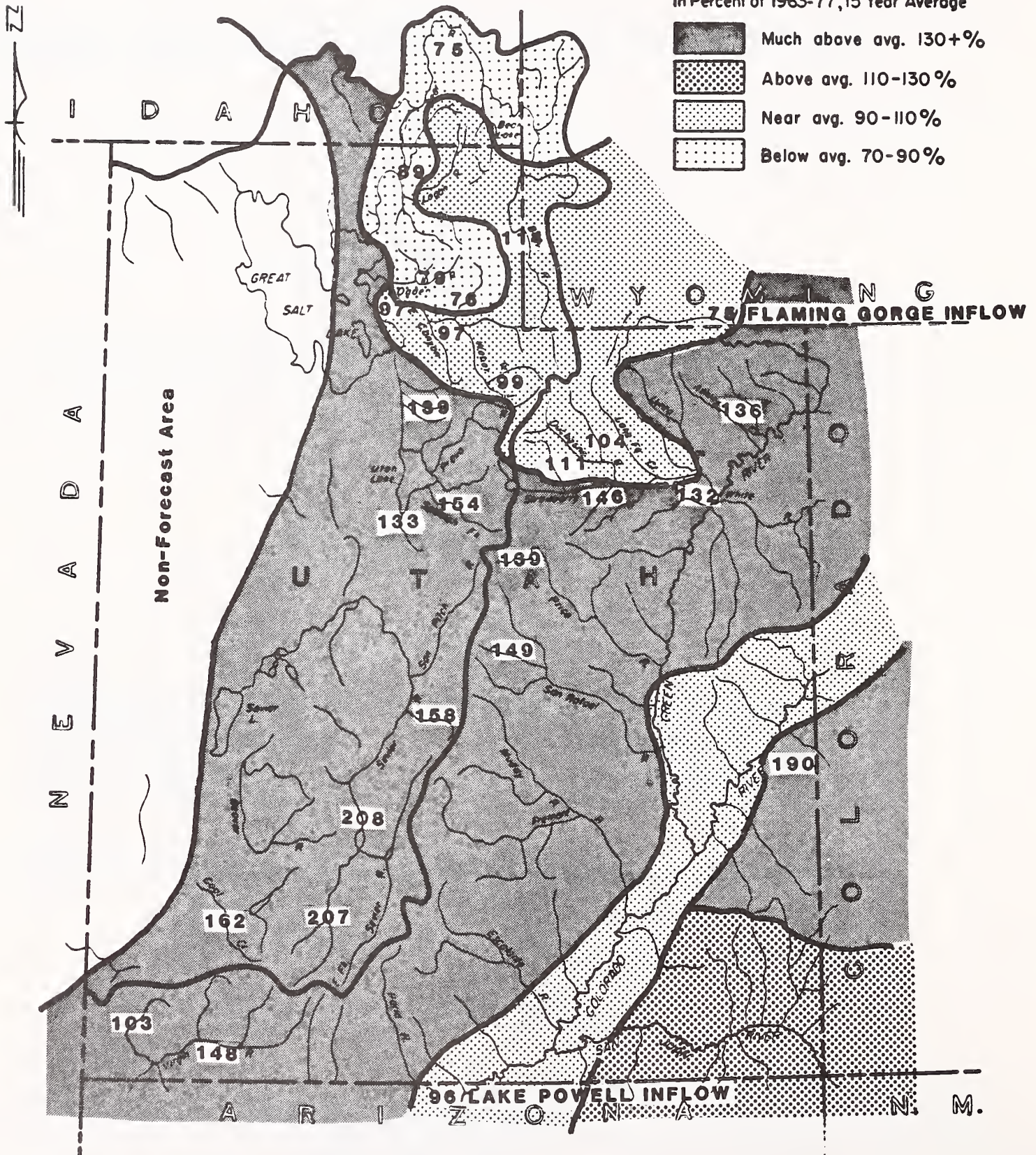
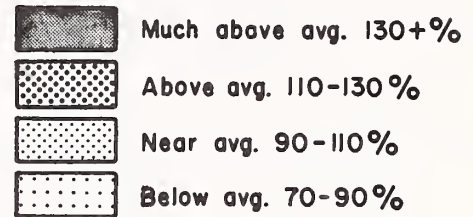
Based on Snow Surveys Made on  
UTAH and BEAR RIVER WATERSHEDS

**March 1, 1983**

Approximate Date



FORECAST STREAM FLOW  
in Percent of 1963-77, 15 Year Average





As Of March 1, 1983

\* \* \* \* \*  
\* Utah's 1983 Water Supply Outlook still ranges from \*  
\* below average in the north to well above average in the \*  
\* southern part of the state. Snow cover ranges from 79% \*  
\* of average on the Upper Bear to 175% on the La Sal \*  
\* Mountains above Moab. Soil moisture and reservoir \*  
\* storage are well above average. Streamflow forecasts \*  
\* range from 70% of average on Woodruff Creek to 350% of \*  
\* average for the Inflow to Minersville Reservoir. \*  
\* \* \* \* \*

### SNOW COVER

Snow measurements taken the last week of February range from 79% on the Upper Bear to 175% of average on La Sal Mountains above Moab. The Lower Bear is 95%, Logan 89%, Ogden 108%, Weber 104%, Provo-Utah Lake 112%, and Salt Lake Front 126% of the March 1 average. Uinta Basin snow cover ranges from 123% for Lakefork-Yellowstone to 145% for Ashley Creek. Uinta-Whiterocks is 134%, Strawberry River 124% and Blacks Fork on the north slope is 79% of average.

Price River snow cover is 105%, San Rafael 136%, Muddy 132% and Fremont 154%. The Sevier is 153% on the East Fork, 163% on the South Fork and 133% on the Lower Sevier. Beaver River is 154%, Coal Creek 169% and Virgin River 158%.

SNOTEL radio readings indicate as much as 4 to 6 inches of snow water increase in southern Utah in a week since snow measurements were made the last few days of February.

### PRECIPITATION

Mountain precipitation during February was spotty and ranged from about 1/3 average on the head of Price River and the north slope of the Unitahs to better than twice average on Farmington Creek on the East side of Great Salt Lake.

### SOIL MOISTURE

Watershed soils are much wetter this year than usual.

### RESERVOIR STORAGE

Twenty-six of Utah's key irrigation reservoirs are now 129% of the March 1 average and 89% of capacity. This leaves only 11% of useable capacity yet to fill with spring runoff. Utah Lake is now 2.03 feet above compromise and Great Salt Lake is 4202.45 feet or 3.15 feet above last year on March.

## STREAMFLOW FORECASTS

Forecasts of spring and summer streamflow now range from 70% of average in northern Utah to 350% in southern Utah. Forecasts on the Bear range from 114% at Woodruff to 75% at Harer, Idaho. Logan River is forecast 89%, Blacksmith Fork 90% and Little Bear 73% of average.

Pineview Inflow is forecast 90% and the Weber is forecast at just about average flow for the April-June period.

Uinta Basin forecasts range from 94% on Black's Fork to 146% for the Strawberry at Duchesne.

Provo River-Utah Lake forecasts range from 130 to 150% of average as do Price, San Rafael and Muddy Rivers.

Most of the other southern Utah streams, Sevier, Virgin, Beaver, Coal Creek and Mill Creek, range from 150 to better than 200%.

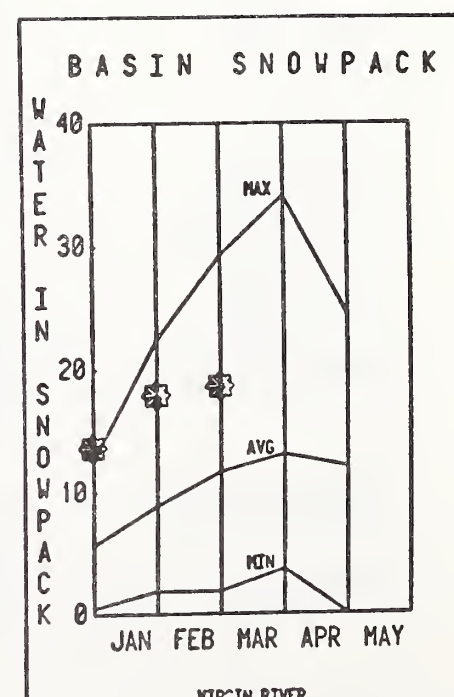
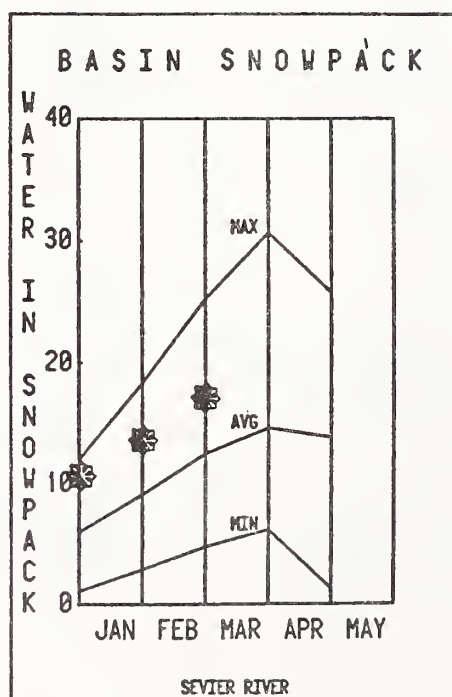
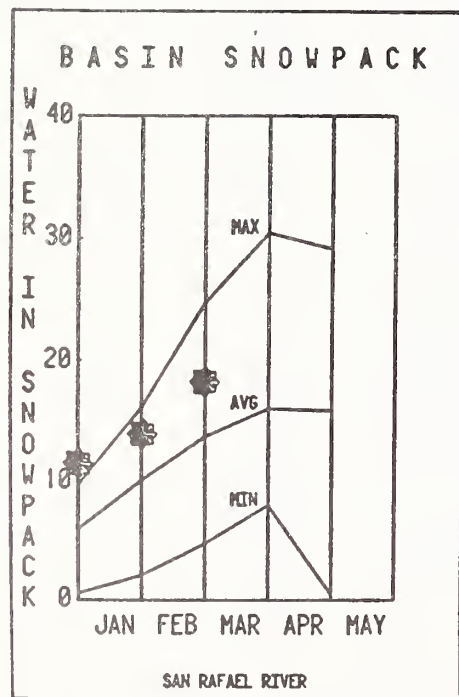
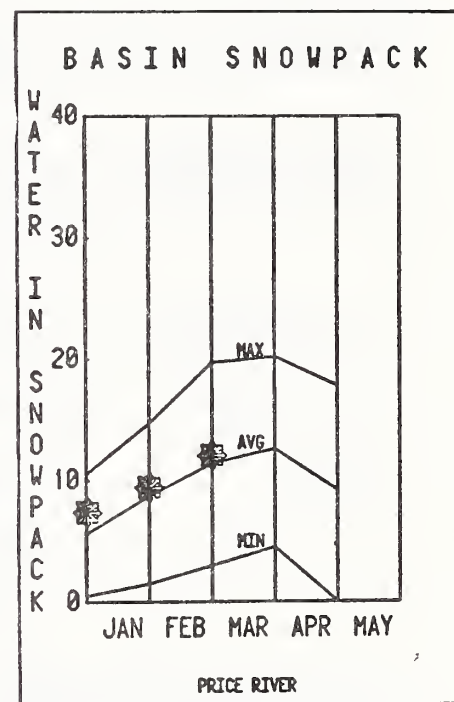
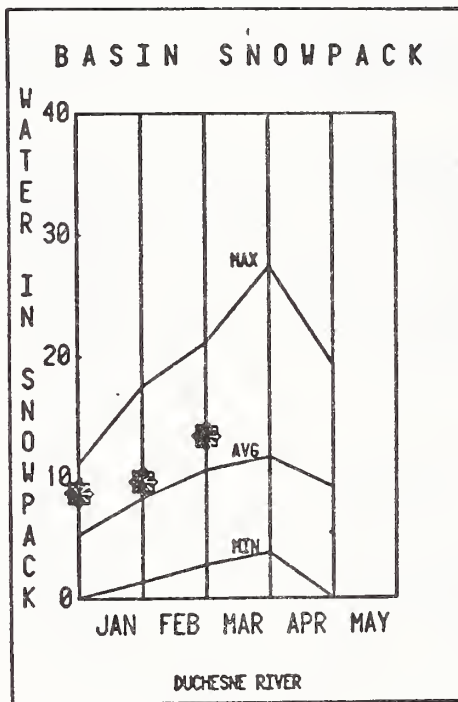
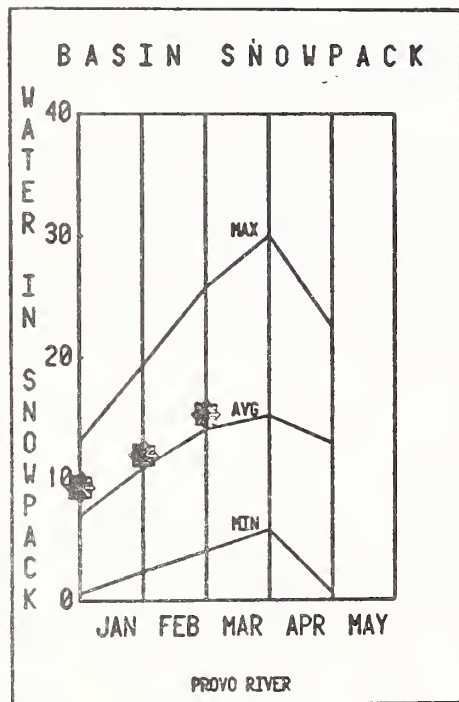
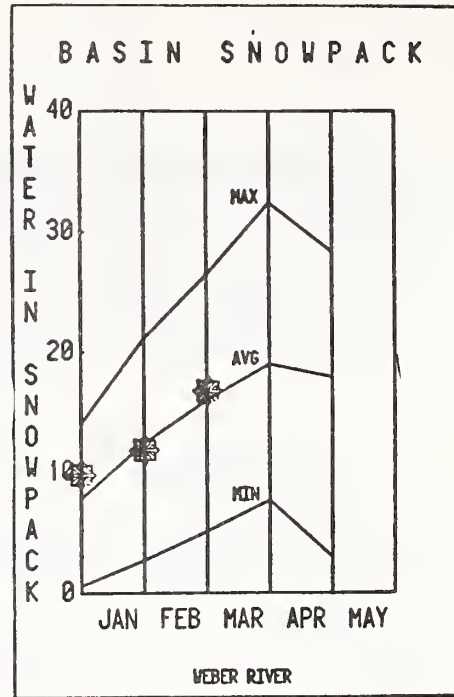
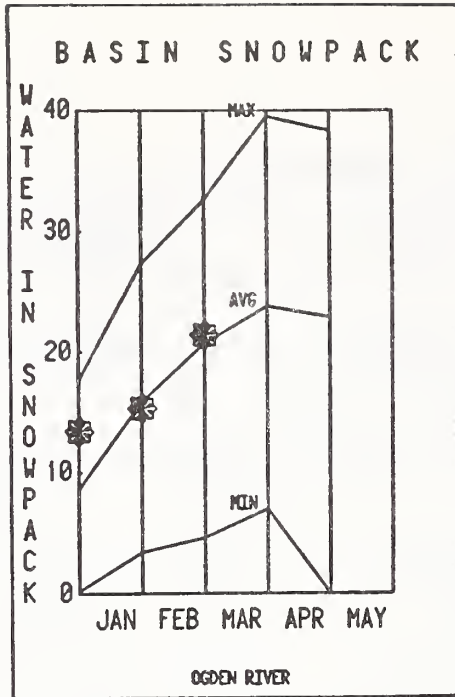
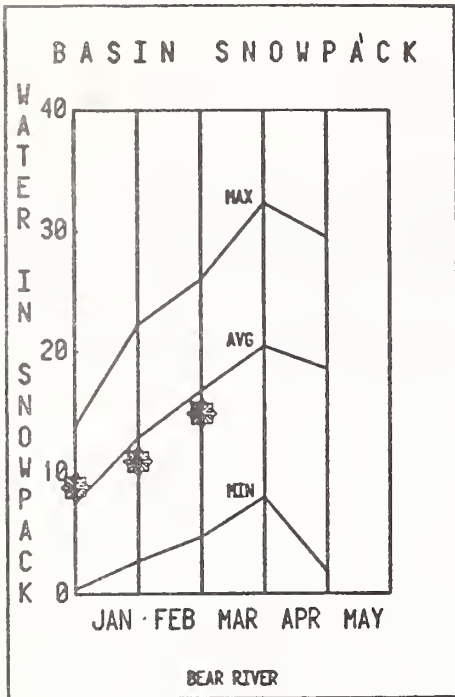
Peak flows are not expected to be a problem in northern Utah except as they add to the existing high water around Utah Lake, Jordan River and the Great Salt Lake.

Peak flows in the southern part of the state are expected to be well above average and precautions should be taken to protect property near stream channels.



## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
GREAT BASIN					
<u>Bear River</u>	Bear Lake	1421.0	1114.1	913.2	1030.6
	Woodruff Narrows	57.3	35.1	24.7	20.5
	Woodruff Creek	--	3.5	--	--
<u>Beaver River</u>	Minersville (RkyFd)	26.0	24.6	17.7	13.5
<u>Little Bear</u>	Hyrum	15.3	10.3	10.4	10.9
	Porcupine	11.3	4.2	2.6 <sup>e</sup>	3.6
<u>Ogden</u>	Causey	6.9	1.1	3.6	2.0 <sup>b</sup>
	Pineview	110.1	58.2	73.5	49.9
<u>Provo</u>	Deer Creek	149.7	109.1	107.0	106.6
<u>Settlement Creek</u>	Settlement Creek	1.2	1.0	0.6	--
	Vernon Creek	0.6	0.5	0.4	--
<u>Sevier River</u>	Gunnison	18.2	17.0	16.0	14.0
	Otter Creek	52.5	50.6	44.8	33.1
	Piute	71.8	56.0	64.4	44.9
	Sevier Bridge	236.0	234.0	198.5	131.4
	Panguitch Lake	22.3	20.5 <sup>e</sup>	18.5	--
<u>Spanish Fork</u>	Strawberry	270.0	252.7	177.0	153.7
<u>Utah Lake</u>	Utah Lake	883.9	1096.7	850.8	719.8
<u>Weber</u>	East Canyon	48.1	40.2	34.2	28.3
	Echo	73.9	50.0	53.3	51.7
	Lost Creek	20.0	14.1	13.0	13.2
	Rockport	60.9	46.9	27.5	32.8
	Willard Bay	193.3	155.5	141.2	135.1
COLORADO RIVER BASIN					
<u>Ashley Creek</u>	Steinaker	33.3	32.6	23.0	21.9
	Red Fleet	26.0	21.0	--	--
<u>Colorado</u>	Blue Mesa	829.5	478.4	267.6	--
	Lake Powell	25002.0	22231.0	19470.0	--
<u>Green</u>	Flaming Gorge	3749.0	3167.0	2663.9	--
<u>Lakefork</u>	Moon Lake	35.8	31.0	18.6 <sup>e</sup>	18.3
<u>Price River</u>	Scofield	65.8	48.2	35.7	35.8
<u>San Juan</u>	Navajo	1696.0	1344.5	1202.9	--
	Ken's Lake	2.7	1.0	1.3	--
<u>San Rafael</u>	Huntington North	3.9	3.7	2.7	3.0 <sup>b</sup>
	Joe's Valley	54.6	47.4	31.7	36.9 <sup>b</sup>
	Mill Site	16.7	13.1	6.6	--
<u>Strawberry</u>	Starvation	165.3	121.4	144.4	130.0 <sup>b</sup>
	Soldier Creek	951.4	46.4		
<u>Uintah</u>	Bottle Hollow	11.3	11.1	11.1	9.9 <sup>b</sup>
b=Less than 15 years.					



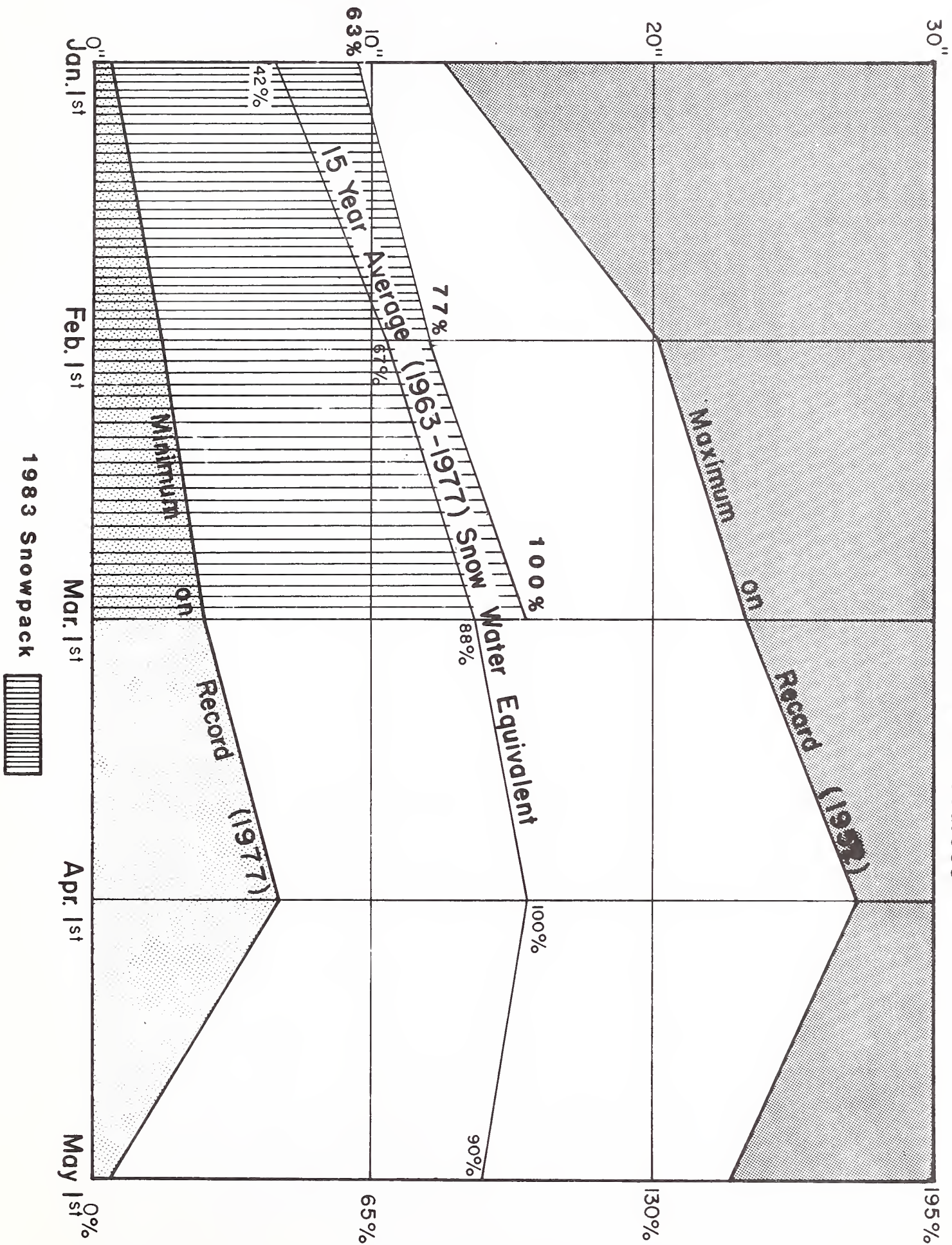




# UTAH'S WINTER SNOWPACK



Data based on 79 selected snow courses



PERCENT OF APRIL 1<sup>st</sup> SNOW WATER EQUIVALENT

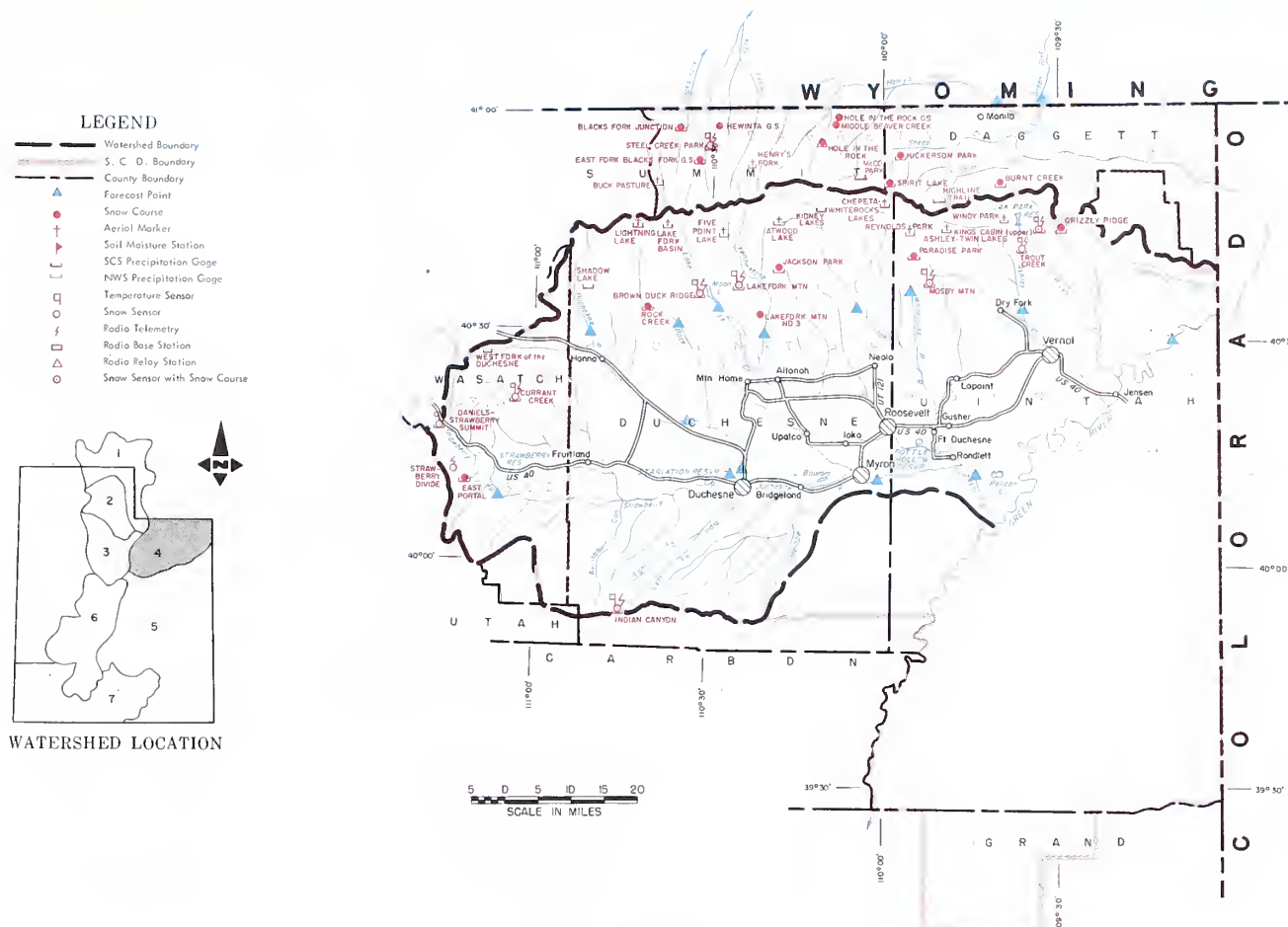




# WATER SUPPLY OUTLOOK

## UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MARCH 1, 1983

THE WATER SUPPLY OUTLOOK RANGES FROM BELOW AVERAGE TO NEAR AVERAGE

SNOW COVER ranges from 79% of the March 1 average on the Upper Bear to 95% on the Lower Bear. The Logan River is 89% of average. Individual snow courses range from 74% of average at Salt River Summit to 116% at Christensen Ranch.

PRECIPITATION at mountain locations ranged from 47% of the February average at Bug Lake to 119% at Burts-Miller Ranch.

SOIL MOISTURE is above average under the snow pack.

RESERVOIR STORAGE is above average (109%) and 77% of usable capacity.

STREAMFLOW FORECASTS generally dropped 2 to 6% and now range from 70% of the April-July average for Woodruff Creek to 114% of average for Bear River near Woodruff. The Bear is forecast 112% at State Line, 106% at Randolph and 75% at Harer, Idaho. Logan River is forecast 89%, Blacksmith Fork 90%, and Little Bear 73%. Thomas Fork is forecast 86% and Smiths Fork 80%.

Most water users are expected to have a near average water supply. Some on smaller streams without storage may have late season shortages.

Peak flows are expected to be in the near average range and should cause few problems with normal temperature and precipitation during snowmelt.

# BEAR RIVER BASIN IN UTAH

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSANDS OF FEET	
	Thousands Acres Feet	Percent of Average		Last Year	Average <sup>†</sup>
BEAR RIVER					
Bear nr UT-Wyo. State Line	127	112	Apr-July	146	114
Bear nr Woodruff	169	114	Apr-July	190	148
Woodruff Crk nr Woodruff, UT	12.9	70	Apr-July	--	18.4 <sup>b</sup>
Big Creek nr Randolph, UT	5.7	105	Apr-July	--	5.4 <sup>b</sup>
Bear nr Randolph	127	106	Apr-July	145	120
Thomas Fork nr ID-WY State Ln	30	86	Apr-Sept	--	35
Smith's Fork nr Border, WY	95	80	Apr-Sept	--	120
Bear at Harer, Idaho 1/	248	75	Apr-Sept	--	332
Logan nr Logan 1/	106	89	Apr-July	175	118
Blacksmith Fork nr Hyrum	48	90	Apr-July	83	54
Little Bear nr Paradise	28	73	Apr-June	65	38
Cub River nr Preston, ID	44	94	Apr-July	--	47

## SUMMARY OF SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUBWATERSHED	NUMBER OF LOCATIONS AVERAGED	THIS YEAR AS A PERCENT OF	
		LAST YEAR	AVERAGE
BEAR RIVER	25	75	93
UPPER BEAR RIVER	4	68	79
LOWER BEAR RIVER	21	76	95
LOGAN RIVER	7	70	89
1 - Observed flow corrected for change in storage and diversions			
2 - Inflow record as computed by U. S. Bureau of Reclamation			
3 - Provisional flows - Subject to Correction			
a - Partly estimated			
b - Average of all past record - less than 15 years			
e - Maximum mean daily peak flow			
+ - 1963-77 15 year Average Period			

## RESERVOIR STORAGE (Thousand Acres Feet)

BASIN OR STREAM	RESERVOIR	USABLE CAPACITY	USABLE STORAGE		
			This Year	Last Year	Average
BEAR RIVER	Bear Lake	1421.0	1114.1	913.2	1030.6
	Woodruff Narrows	57.3	35.1	24.7	20.5
	Woodruff Creek		3.5		
LITTLE BEAR	Hyrum	15.3	10.3	10.4	10.9
	Porcupine	11.3	4.2	2.6 <sup>e</sup>	3.6

## PEAK FLOWS<sup>e</sup>

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average
Big Creek nr Randolph	50-90	63
Logan River nr Logan	610-1200	1016
Woodruff Creek nr Woodruff	175-320	267
Little Bear nr Paradise	280-600	507
Bear nr. Ut.-Wyo. Stateline	1410-2160	1600

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average
Burts-Miller Ranch	2/24	16	3.6	5.8	--
Cub River R.S.	2/23	27	8.3	8.4	8.4
Emigrant Summit	3/1	70	22.4	29.4	21.7
Franklin Basin	2/23	56	18.8	26.2	22.7
Hayden Fork	2/24	36	10.3	15.1	12.7 <sup>a</sup>
Klondike Narrows	2/22	48	14.2	21.5	17.3

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average
Little Bear Lower	2/22	34	9.7	9.9	9.2
Little Bear Upper	2/22	40	11.2	11.5	10.9
Monte Cristo	2/22	51	17.7	24.8	22.0
Salt River Summit	2/25	40	10.6	17.8	14.4
Stillwater Camp	2/24	29	7.5	11.0	
Tony Grove R.S.	2/22	43	10.8	12.8	10.9

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"The Conservation of Water begins with the Snow Survey"



# WATER SUPPLY OUTLOOK

## WEBER-OGDEN WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



### THE 1983 WATER SUPPLY OUTLOOK IS NEAR AVERAGE

**SNOW COVER** on the Ogden River drainage is 108% of average and 91% of last year at this time. Weber River snow cover is 104% of the March 1 average and 87% of a year ago. Individual snow courses range from 81% at Dry Bread Pond to 137% at Farmington Lower.

**PRECIPITATION** at mountain stations ranged from about 75% at Dry Bread Pond to 221% at Farmington Lower for February.

**SOIL MOISTURE** is above average.

**RESERVOIR STORAGE** is 114% of the March 1 average on the Ogden and 117% on the Weber.

**STREAMFLOW FORECASTS** range from 76% of the April-June average for Lost Creek near Croydon to 125% for Farmington Creek. Weber River is forecast 99% at Oakley and Rockport Inflow, 97% at Coalville and Gateway, and 99% for Echo Inflow. Chalk Creek is forecast 102%, East Canyon 99%, and Hardscrabble 96%. The South Fork Ogden is forecast 79% and Pineview Inflow 90% of the April-June average.

Near average water supplies are expected for most users in this area and peak flows are expected to be near average and should not be a problem with normal temperature and precipitation during the snow melt season.

# WEBER-OGDEN WATERSHEDS IN UTAH

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST			THOUSAND ACRES FEET	
	Thousand Acres Feet	Percent of Average		Last Year	Average
WEBER-OGDEN RIVERS					
Weber nr Oakley	104	99	Apr-June	133	104
Rockport Reservoir Inflow <u>1/</u>	112	99	Apr-June	172	112
Chalk Creek at Coalville	40	102	Apr-June	61	40
Weber nr Coalville	120	97	Apr-June	175	123
Lost Creek nr Croydon, UT	13.3	76	Apr-June	24	17.4 <sup>b</sup>
East Canyon Creek nr Morgan <u>1/</u>	26	99	Apr-June	44	26
Hardscrabble Crk nr Porterville	17.9	96	Apr-June	--	18.6 <sup>b</sup>
South Fork Ogden nr Huntsville	45	79	Apr-June	92	57
Pineview Reservoir Inflow <u>2/</u>	103	90	Apr-June	168	115
Echo Reservoir Inflow	159	99	Apr-June	215	160
Weber at Gateway	300	97	Apr-June	396	310
JORDAN RIVER & SALT LAKE					
Farmington Crk nr Farmington	10.2	125	Apr-July	--	8.1 <sup>b</sup>

## SUMMARY of SNOW MEASUREMENTS

RIVER BASIN and/or SUB-WATERSHED	Number of Gauges Ave. Age	THIS YEAR AS A PERCENT OF	
		Last Year	Average
OGDEN RIVER	5	91	108
WEBER RIVER	12	87	104

1 - Observed flow corrected for change in storage and diversions  
2 - Inflow record as computed by U. S. Bureau of Reclamation  
3 - Provisional flows - Subject to Correction  
a - Partly estimated  
b - Average of all past record - less than 15 years  
e - Maximum mean daily peak flow  
+ - 1963-77 15 year Average Period

## RESERVOIR STORAGE (Thousand Acres Feet)

BASIN OF STREAM	RESERVOIR	Usable Capacity	USABLE STORAGE		
			This Year	Last Year	Average
OGDEN	Causey	6.9	1.1	3.6	2.0 <sup>b</sup>
	Pineview	110.1	58.2	73.5	49.9
WEBER	East Canyon	48.1	40.2	34.2	28.3
	Echo	73.9	50.0	53.3	51.7
	Lost Creek	20.0	14.1	13.0	13.2 <sup>b</sup>
	Rockport	60.9	46.9	30.1	32.8
	Willard Bay	193.3	155.5	141.2	135.1

## PEAK FLOWS<sup>e</sup>

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average
Lost Creek nr Croydon	150-270	220
South Fork Ogden nr Huntsville	500-740	772
Chalk Creek nr Coalville	400-750	568
Weber nr Oakley	1360-1830	1560

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (inches)	Water Content (inches)	Water Content (inches)	
				Last Year	Average
Beaver Creek R.S.	2/25	27	6.9	9.9	7.5
Beaver Creek-Skunk Creek	2/22	28	9.8	12.2	10.8
Ben Lomond Peak	2/22	99	35.2	34.7	29.1
Ben Lomond Trail	2/22	62	20.0	19.6	15.7 <sup>b</sup>
Chalk Creek #1	2/24	58	17.7	24.9	18.0
Chalk Creek #2	2/24	41	10.8	15.0	12.2
Chalk Creek #3	2/24	26	6.3	7.8	6.7
Dry Bread Pond	2/22	40	13.0	18.4	16.0

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (inches)	Water Content (inches)	Water Content (inches)	
				Last Year	Average
Horse Ridge	2/22	52	16.1	22.2	18.2 <sup>b</sup>
Lost Creek Reservoir	2/22	17	5.2	7.1	4.9 <sup>b</sup>
Monte Cristo	2/22	51	17.7	24.8	22.0
Parleys Canyon Summit	2/25	54	15.3	17.8	16.1
Sagebrush Flat	2/22	16	4.8	6.5	5.0
Smith & Morehouse	2/24	39	11.0	13.0	11.4
Trial Lake	2/25	62	18.1	28.1	20.0

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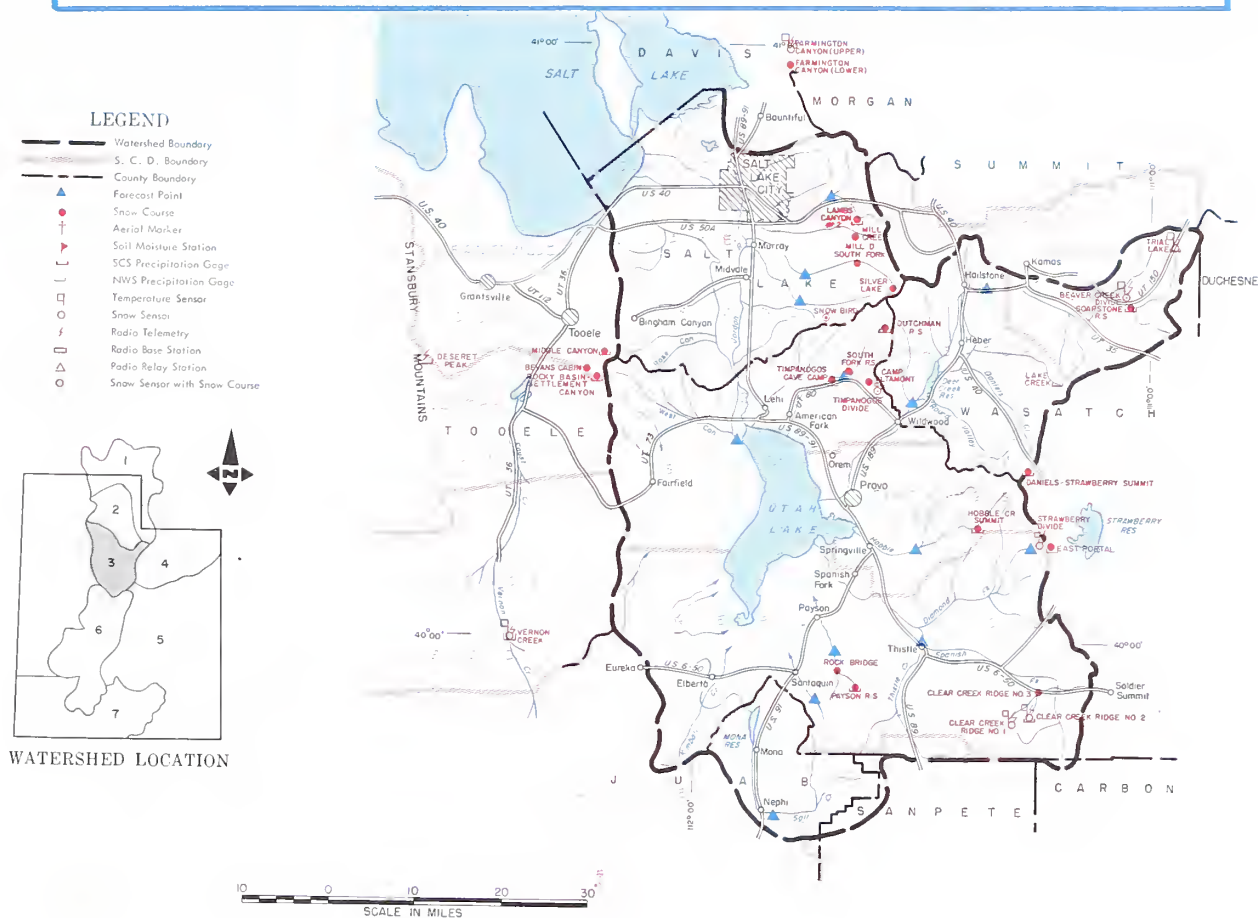
*"The Conservation of Water begins with the Snow Survey"*



# WATER SUPPLY OUTLOOK

## UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



**SNOW COVER** ranges from 112% of the March 1 average on the Provo-Utah Lake drainage to 148% in Tooele Valley. Jordan River-Salt Lake drainages are 126% of average. February storms increased the snow pack as much as 13% along the Salt Lake front.

**PRECIPITATION** at mountain locations ranged from 92% of the February average at Hobbie Creek Summit to 119% at Clear Creek Ridge #2.

**SOIL MOISTURE** is above average under the snow pack.

**RESERVOIR STORAGE** is above average due to above average carryover last fall. Utah Lake is now 2.03 feet over compromise and Great Salt Lake 4202.45 feet or 3.15 feet above last year at this time.

**STREAMFLOW FORECASTS** range from 124% for Little Cottonwood Creek to 225% for Vernon Creek. Provo River is forecast 127% at Hailstone, 142% at Deer Creek Dam and Utah Lake Inflow 133% of the April-July average. American Fork is forecast 145%, Hobbie Creek 142%, Strawberry Inflow 146%, Spanish Fork 154%, and Payson Creek 143%. Streams along the Salt Lake Front are forecast 139% for Big Cottonwood, 151% for Mill Creek, 162% for Parleys, 133% for Emigration Creek and 121% for City Creek. Settlement Creek is forecast 157% and South Willow 125% of the April-July average. Flooding is already occurring around Utah Lake and along the Jordan River. Precautions should be taken to protect property near stream channels and lakes.



# UTAH LAKE, JORDAN RIVER AND TOOELE VALLEY WATERSHEDS IN UTAH

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
PROVO RIVER AND UTAH LAKE					
Provo nr Hailstone 1/	130	127	Apr-July	153	102
Provo below Deer Creek Dam 1/	170	142	Apr-July	--	120
American Fork nr American Fork	45	145	Apr-July	--	31
Hobble Creek nr Springville	28	142	Apr-July	--	19.7b
Strawberry Reservoir Inflow 1/	76	146	Apr-July	95	52
Spanish Fork at Thistle	60	154	Apr-July	--	39
Payson Creek nr Payson	9.0	143	Apr-July	--	6.3
Utah Lake Inflow	325	133	Apr-July	--	244
JORDON RIVER & SALT LAKE					
Little Cottonwood Crk nr SLC	47	124	Apr-July	--	38
Big Cottonwood nr SLC	53	139	Apr-July	--	38
Parley's Creek nr SLC	25	162	Apr-July	--	15.4
Mill Creek nr SLC	9.5	151	Apr-July	--	6.3
Emigration Creek nr SLC	6.5	163	Apr-July	--	4.0
City Creek nr SLC	13.0	163	Apr-July	--	8.0
TOOELE VALLEY					
Vernon Creek nr Vernon	1.8	225	Mar-June	1.6	0.8
Settlement Crk nr Tooele	3.6	157	Apr-July	--	2.3
S. Willow Crk nr Grantsville	3.6	125	Apr-July	4.2	2.9

## SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Gauging Stations Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
PROVO RIVER & UTAH LAKE	13	87	112
JORDON RIVER & SALT LAKE	4	111	126
TOOELE VALLEY	2	176	148

1 - Observed flow corrected for change in storage and diversions  
3 - Provisional flows - subject to correction  
a - Partly estimated  
b - Average of past record - less than 15 years  
+ - 1963-77 15 year average period  
e - Maximum daily peak flow

## RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
SPANISH FORK	Strawberry	270.0	252.7	177.0	153.7
UTAH LAKE	Utah Lake	883.9	1096.7	850.0	719.8
	Settlement Creek	1.2	1.0	0.6	--
	Vernon Creek	0.6	0.5	0.4	--
PROVO	Deer Creek	149.7	109.1	113.0	106.6

## PEAK FLOWS<sup>e</sup>

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Big Cottonwood nr Salt Lake City	450-550	500
Little Cottonwood nr Salt Lake City	475-575	525
Provo Near Hailstone	1700-2100	1900

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Bevans Cabin		NOT MEASURED			
Camp Altamont	2/26	55	18.4	17.1	13.4
Clear Creek #1	2/22	50	15.1	19.1	15.6
Clear Creek #2	2/22	42	12.0	16.1	11.8
Clear Creek #3	2/22	31	8.0	10.1	6.9
Daniels-Strawberry Summit	2/22	49	14.6	14.8	12.3
Deseret Peak		NOT MEASURED		24.6	--
Dutchman R.S.	2/26	59	19.1	22.0	14.4
Hobble Creek Summit	2/22	50	14.0	16.8	12.3
Lamb's Canyon #2	2/25	47	13.9	17.8	--
Middle Canyon	2/27	56	15.6	9.3	12.1
Mill Creek	2/24	58	17.7	19.3	--

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Mill D South Fork	2/24	59	18.4	21.5	17.1
Parley's Canyon Summit	2/25	54	15.3	17.8	16.1
Payson R.S.	2/25	55	17.9	19.2	16.5b
Rocky Basin-Settlement Canyon		NOT MEASURED		20.3	--
Silver Lake Brighton	2/24	67	23.0	26.2	19.6
Soapstone R.S.	2/25	35	9.2	13.9	11.1
South Fork R.S.	2/25	42	12.9	9.4	6.1
Timpanogos Divide	2/26	73	26.1	23.0	21.5
Trial Lake	2/25	62	18.1	28.1	20.0
Vernon Creek	2/27	56	16.0	8.6	9.3a

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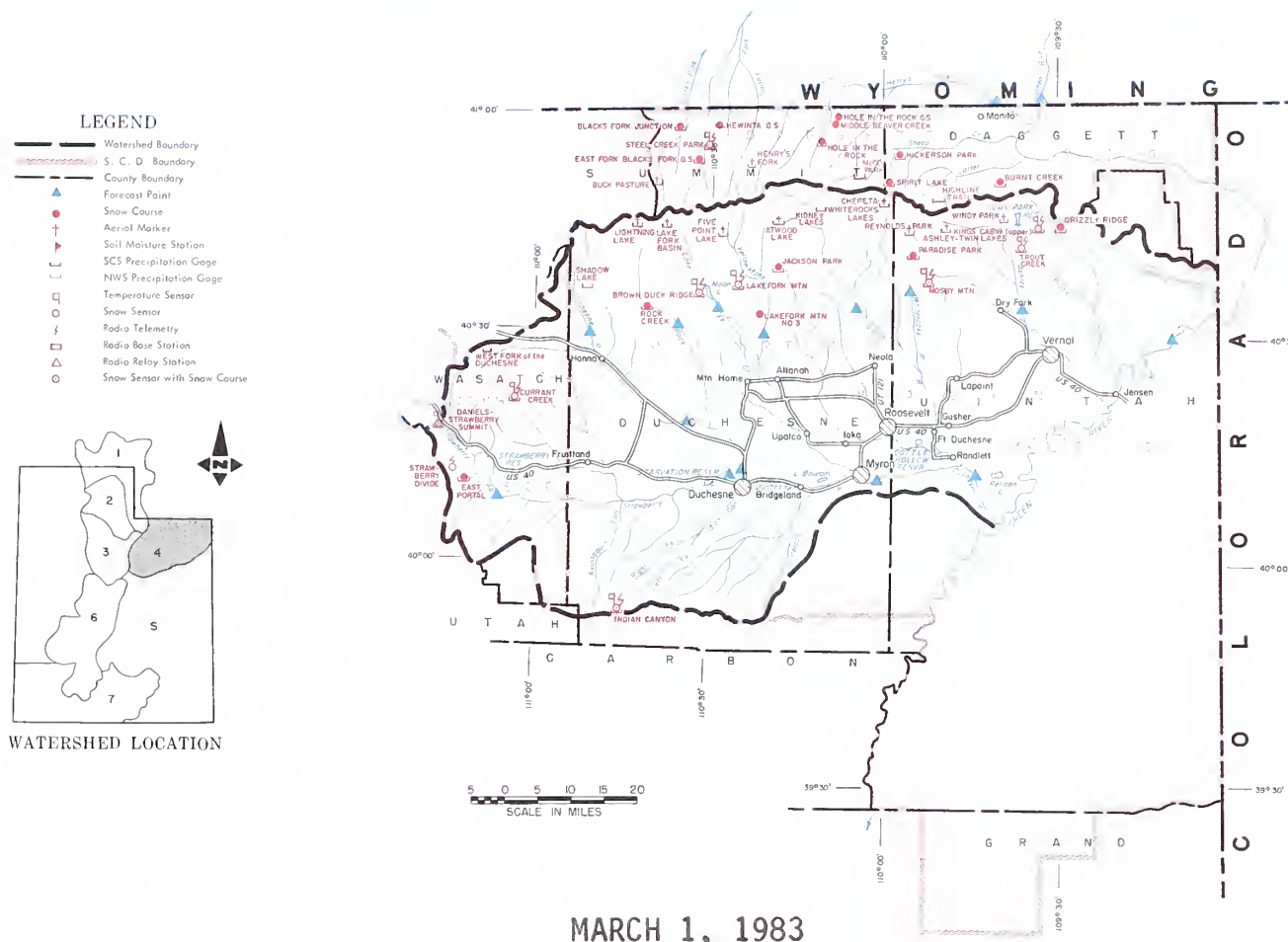


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# WATER SUPPLY OUTLOOK

## UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



### THE WATER SUPPLY OUTLOOK IS NEAR TO ABOVE AVERAGE

**SNOW COVER** ranges from 79% of the March 1 average on Black's Fork to 145% on Ashley Creek. The Uinta-Whiterocks drainage is now 134%, Lakefork-Yellowstone drainage is 123%, and Strawberry River 124% of the March 1 average.

**PRECIPITATION** at mountain stations ranged from 33% of the February average at Burnt Creek above Manila to 126% at Daniels-Strawberry Summit above Strawberry Reservoir.

**SOIL MOISTURE** is above average under the snow pack.

**RESERVOIR STORAGE** is above average.

**STREAMFLOW FORECASTS** range from 94% of average on Black's Fork to 146% for the Strawberry near Duchesne. Ashley Creek is forecast 136%, Whiterocks 132%, Uintah 143%, Yellowstone 127%, Lakefork 112%, Rock Creek 104%, and Currant Creek 122%. The Duchesne is forecast 111% at Tabiona, 108% at Duchesne, 129% at Myton, and 132% at Randlett. Henry's Fork is forecast 95% of average.

Water users in this area are expected to have adequate water supplies and peak flows are not expected to be a problem except possibly on the Strawberry above Duchesne. Precautions should be taken to protect property near the river channel.



**UINTAH BASIN AND DAGGETT SCD's IN UTAH**

**STREAMFLOW FORECASTS**

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year <sup>3</sup>	Average <sup>4</sup>
DUCHESNE RIVER					
Duchesne nr Tabiona 1/	119	111	Apr-July	170	107
Duchesne at Duchesne 1/	209	108	Apr-July	264	193
Strawberry at Duchesne	83	146	Apr-July	91	57
Rock Creek nr Mtn. Home	99	104	Apr-July	112	95
Currant Creek nr Fruitland	25	122	Apr-July	32	20
Lakefork below Moon Lake 1/	80	112	Apr-July	79	72
Yellowstone nr Altonah	84	127	Apr-July	74	67
Duchesne at Myton 1/	271	129	Apr-July	275	210
Whiterocks nr Whiterock	79	132	Apr-July	62	60
Uintah nr Neola	127	143	Apr-July	90	89
Duchesne at Randlett 1/	351	132	Apr-July	336	266
West Fork Duchesne at Hanna	29	112	Apr-July	--	26
FLAMING GORGE TO DUCHESNE RIVER					
Henry's Fork nr Manila	52	95	Apr-Sept	38	54
Black's Fork at Millburne	86	94	Apr-July	95	92
Flaming Gorge Inflow 1/	970	75	Apr-July	--	1292
Ashley Creek nr VernaT	70	136	Apr-July	50	51

**SUMMARY of SNOW MEASUREMENTS** (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-BASIN	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
DUCHESNE RIVER - TOTAL	12	105	130
LAKEFORK-YELLOWSTONE CREEKS	4	108	123
STRAWBERRY RIVER	4	95	124
UINTAH - WHITEROCKS RIVERS	3	126	134
ASHLEY CREEK	2	160	145
BLACK'S FORK	2	57	79
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 15 years e - Maximum mean daily peak flow + - 1963-77 15 year Average Period			

**RESERVOIR STORAGE (Thousand Acre Feet)**

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average <sup>4</sup>
ASHLEY CREEK	Steinaker	33.3	32.6	23.0	21.9
GREEN RIVER	Flaming Gorge	3749.0	3167.0	2663.9	--
LAKE FORK	Moon Lake	35.8	31.0	18.6 <sup>e</sup>	18.3
STRAWBERRY	Starvation	165.3	121.4	144.4	130.0 <sup>b</sup>
UINTAH	Bottle Hollow	11.3	11.1	11.1	9.9 <sup>b</sup>

**PEAK FLOWS <sup>e</sup>**

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average <sup>4</sup>
Strawberry at Duchesne	750-1160	656
Ashley Creek nr Vernal	860-1360	1030

**SNOW**

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average <sup>4</sup>
Brown Duck Ridge	2/24	65	18.8	20.7	14.1 <sup>a</sup>
Currant Creek	2/22	39	10.3	10.1	7.8 <sup>a</sup>
Daniels-Strawberry	2/22	49	14.6	14.8	12.3
Hewinta G. S.	2/24	28	7.4	10.3	7.3
Hickerson Park	2/24	25	5.3	6.2	5.0 <sup>b</sup>
Jackson Park	2/24	49	13.6	11.3	12.2 <sup>a</sup>
Kings Cabin Upper	2/24	41	11.6	8.6	8.1

**SNOW**

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average <sup>4</sup>
Lakefork Mountain	2/24	42	11.0	9.6	9.0
Mosby Mountain	2/24	37	10.5	7.5	7.7
Paradise Park	2/24	51	16.1	13.1	10.2
Rock Creek Ranch	2/24	30	8.0	7.4	5.2 <sup>a</sup>
Spirit Lake	2/24	36	10.3	11.6	9.7
Steel Creek Park	2/24	50	12.3	17.5	12.8 <sup>b</sup>
Strawberry Divide	3/1	71	19.8	20.9	16.5
Trout Creek	2/24	41	11.4	8.3	--

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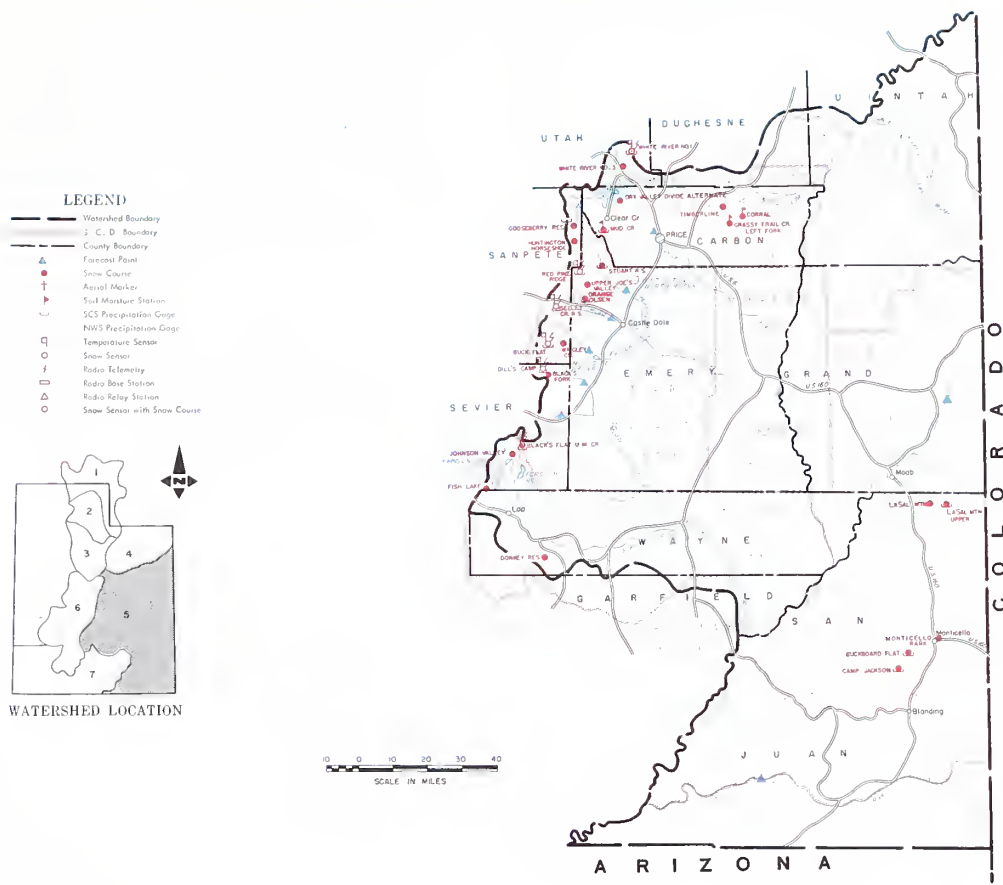
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# WATER SUPPLY OUTLOOK

## CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MARCH 1, 1983

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER ranges from 105% of the March 1 average on Price River to 175% on La Sal Mountains above Moab. San Rafael drainages are 136%, Muddy River is 132%, Fremont River 154%, and Blue Mountains above Monticello and Blanding are 164% of average.

PRECIPITATION at mountain locations ranged from 34% of the February average at Mud Creek above Scofield Reservoir to 170% at Fish Lake on the head of the Fremont River.

SOIL MOISTURE is above average under the snow pack.

RESERVOIR STORAGE is above average.

STREAMFLOW FORECASTS range from 159% on Ferron Creek to 88% for the Colorado at Cisco. Other forecasts are as follows: Scofield Inflow 149%, Price 125%, Huntington 149%, Cottonwood 149%, Muddy 144%, Mill Creek 190%, and Seven Mile Creek 116%. Green River is 94% and San Juan 110% of the April-July average.

## CARBON, EMERY, WAYNE, GRAND AND SAN JUAN COUNTIES IN UTAH

## STREAMFLOW FORECASTS

BASIN, STREAM and or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	Forecast	Percent of Average		Last Year	Average
<b>PRICE RIVER</b>					
Gooseberry Crk nr Scofield	14.0	139	Apr-July	--	10.1
Scofield Reservoir Inflow	53	149	Apr-July	--	36
Price nr Heiner 1/	80	125	Apr-July	--	64
<b>SAN RAFAEL RIVER</b>					
Huntington Crk nr Huntington	69	149	Apr-July	--	49b
Cottonwood Crk nr Orangeville	66	149	Apr-July	65	44b
Ferron Creek nr Ferron	54	159	Apr-July	49	34
<b>MUDDY CREEK</b>					
Muddy Creek nr Emery	24	144	Apr-July	27	16.9
<b>UPPER COLORADO BASIN</b>					
Colorado nr Cisco, UT	2400	88	Apr-July	--	2716
Green at Green River, UT	2790	94	Apr-July	--	2974
Mill Creek nr Moab	9.7	190	Apr-July	4.2	5.1b
Navajo Reservoir Inflow	680	112	Apr-July	--	608
San Juan nr Bluff, UT	955	110	Apr-July	--	865
<b>FREMONT RIVER</b>					
Seven Mile Crk nr Fish Lake	7.4	116	Apr-July	7.2	6.4

## RESERVOIR STORAGE (Thousands Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USABLE STORAGE		
			This Year	Last Year	Average
<b>PRICE RIVER</b>	<b>Scofield</b>	65.8	48.2	35.7	35.8
<b>SAN RAFAEL</b>	<b>Huntington North</b>	3.9	3.7	2.7	3.0b
	<b>Joe's Valley</b>	54.6	47.4	31.7	36.9b
	<b>Mill Site</b>	16.7	13.1	6.6	--
<b>SAN JUAN</b>	<b>Navajo</b>	1696.0	1344.5	1202.9	--
	<b>Kens Lake</b>	2.7	1.0	1.3	--

## SNOW

DRAINAGE BASIN and or SNOW COURSE	Date of Survey	THIS YEAR		PAST RECORD	
		Snow Depth (inches)	Water Content (inches)	Last Year	Average
<b>Buck Flat</b>	2/23	60	17.7	20.1	13.3
<b>Buckboard Flat</b>	2/24	48	13.9	6.7	8.8
<b>Camp Jackson</b>	2/24	54	17.4	8.6	10.3
<b>Dills Camp</b>	2/23	42	13.0	14.7	9.8a
<b>Dry Valley Divide Alternate</b>	2/22	38	10.3	12.5	--
<b>Huntington-Horseshoe</b>	2/22	77	28.0	26.0	19.5a
<b>Mammoth-Cottonwood R.S.</b>	2/22	69	21.7	23.3	17.4

## SUMMARY of SNOW MEASUREMENTS (COMPARISON with PREVIOUS YEARS)

RIVER BASIN and or SUBWATERSHED	Number of Years Average	THIS YEAR AS A PERCENT OF	
		Last Year	Average
<b>PRICE RIVER</b>	3	76	105
<b>SAN RAFAEL RIVER</b>	6	99	136
<b>FREMONT RIVER</b>	3	119	154
<b>LASAL MOUNTAINS</b>	2	191	175
<b>BLUE MOUNTAINS</b>	2	205	164
<b>MUDDY RIVER</b>	2	88	132

1 - Observed flow corrected for change in storage and diversions  
 2 - Inflow record as computed by U. S. Bureau of Reclamation  
 3 - Provisional flows - Subject to Correction  
 a - Partly estimated  
 b - Average of all past record - less than 15 years  
 e - Maximum mean daily peak flow  
 + - 1963-77 15 year Average Period

## PEAK FLOWS e

FORECAST POINT	PEAK FLOW (CFS) FEET	
	Forecast Range	Average
<b>Ferron Creek near Ferron</b>	480-790	422
<b>Muddy Creek near Emery</b>	180-310	154
<b>Huntington Cr. near Huntington</b>	800-900	850

## SNOW

DRAINAGE BASIN and or SNOW COURSE	Date of Survey	THIS YEAR		PAST RECORD	
		Snow Depth (inches)	Water Content (inches)	Last Year	Average
<b>Monticello City Park</b>	2/24	0	0.0	0.0	--
<b>Mud Creek</b>	2/22	45	11.4	16.4	11.4
<b>Red Pine Ridge</b>	2/22	58	17.6	19.6	14.3
<b>Seeley Creek</b>	2/22	58	19.3	15.7	13.4
<b>White River #1</b>	2/22	43	12.6	14.9	11.3
<b>White River #3</b>	2/22	30	7.8	10.7	7.6

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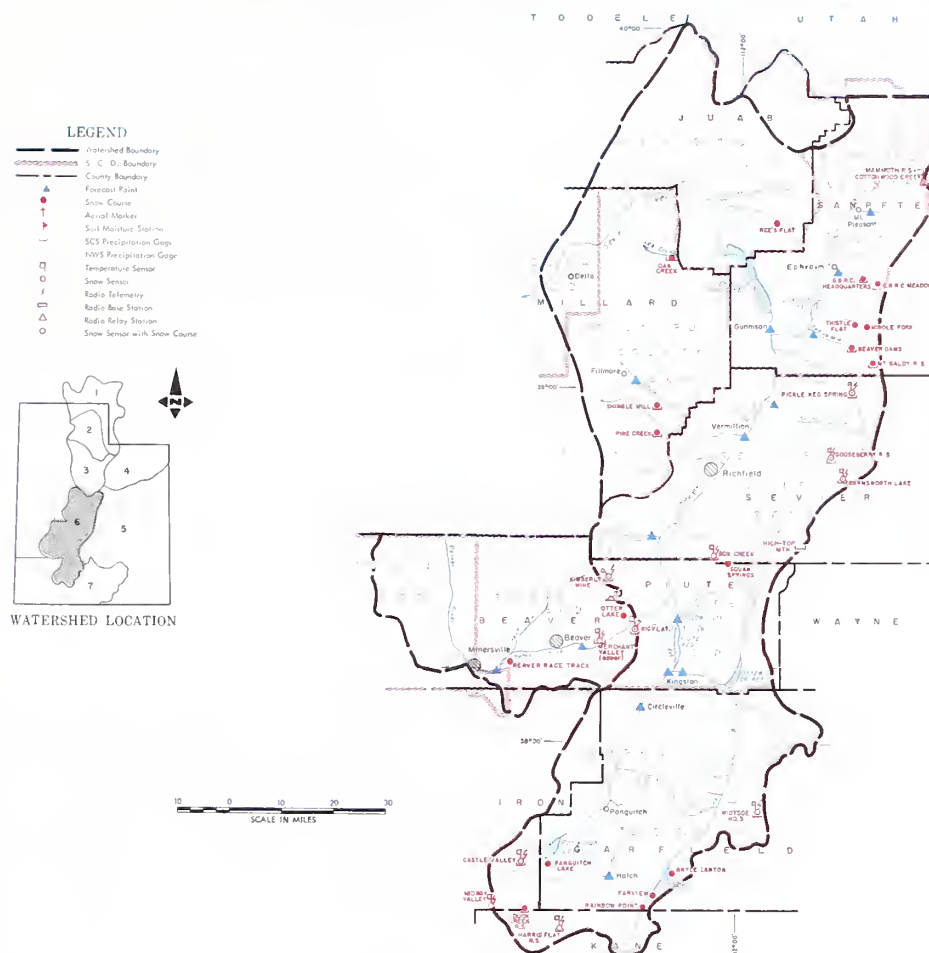
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# WATER SUPPLY OUTLOOK

## SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MARCH 1, 1983

THE WATER SUPPLY OUTLOOK IS WELL ABOVE AVERAGE

SNOW COVER ranges from 163% of the March 1 average on the South Fork Sevier to 133% on the Lower Sevier. The East Fork Sevier is now 153% and Beaver River 154% of average.

PRECIPITATION at mountain stations ranged from 83% of average at Duck Creek Reservoir to 179% at Gooseberry Reservoir.

SOIL MOISTURE is above average under the snow pack.

RESERVOIR STORAGE is well above average. Sevier River storage is 151% of the March 1 average and Minersville is 182% with very little capacity left in any reservoir.

STREAMFLOW FORECASTS now range from 350% for Minersville Inflow to 119% on Salt Creek near Nephi. Sevier River is forecast 207% at Hatch and Circleville, 209% at Kingston, 208% at Piute Dam and 170% at Gunnison. Clear Creek is forecast 152%, Antimony 177%, Salina Creek 158%, Ephriam Creek 159%, Pleasant Creek 137%, Chicken Creek 224%, Oak Creek 193% and Chalk Creek 190%. Beaver River is forecast 199% and North Creeks 181% of the April-July average. Peak flows are expected to be well above average and precautions should be taken to protect property near stream channels.



# SEVIER RIVER BASIN INCLUDING BEAVER RIVER IN UTAH

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	Forecast Thousand Acro Feet	Percent of Average		Thousand Acro Feet	Average
SEVIER RIVER					
Sevier at Hatch	85	207	Apr-July	--	41
Sevier nr Circleville	60	207	Apr-July	--	29
Sevier nr Kingston	48	209	Apr-July	--	23
Antimony Crk nr Antimony	12.2	177	Apr-July	--	6.9
East Fork Sevier nr Kingston/	27	178	Apr-July	--	15.2
Sevier below Piute Dam	75	208	Apr-July	--	36
Clear Crk nr Sevier (abv Oiv)	27	152	Apr-July	--	17.8
Sigurd to Gunnison	47	181	Apr-July	--	--
Kingston to Vermillion Dam	90	160	Apr-June	--	56
Vermillion Dam to Gunnison	65	186	Mar-June	--	35
Salina Creek at Salina	17.5	158	Apr-June	--	11.1
Sevier nr Gunnison	85	170	Apr-July	--	50
Chalk Creek nr Fillmore	31	190	Apr-July	--	16.3
Chicken Creek nr Levan	6.9	224	Apr-July	6.0	3.1
Oak Cr. nr Oak City	2.7	193	Apr-July	1.9	1.4
Ephraim Creek nr Ephraim	23.5	159	Apr-July	--	14.5
Pleasant Crk nr Mt. Pleasant	11.5	137	Apr-July	--	8.4
Salt Creek nr. Nephi	14.5	119	Apr-July	--	12.2
Beaver nr Beaver	40	199	Apr-July	31	20
North Creek (Combined)	25	181	Apr-July	--	13.7 <sup>b</sup>
Minersville Inflow	23	350	Apr-June	--	6.6

## RESERVOIR STORAGE (Thousand Acro Feet)

BASIN OF STREAM	RESERVOIR	Usable Capacity	USABLE STORAGE		
			This Year	Last Year	Average †
SEVIER RIVER	Gunnison	18.2	17.0	16.0	14.0
	Otter Creek	52.5	50.6	44.8	33.1
	Piute	71.8	56.0	64.4	44.9
	Sevier Bridge	236.0	234.0	198.5	131.4
	Panguitch Lake	22.3	20.5 <sup>e</sup>	18.5	--
BEAVER RIVER	Minersville (Rky Fd)	26.0	24.6	17.7	13.5

## SUMMARY of SNOW MEASUREMENTS

River Basin and/or Sub-Basin	Number of Years measured	THIS YEAR AS A PERCENT OF	
		Last Year	Average
UPPER SEVIER RIVER	9	164	161
East Fork Sevier	3	124	153
South Fork Sevier	6	183	163
LOWER SEVIER	12	111	133
BEAVER RIVER	3	112	154

1 - Observed flow corrected for change in storage and diversions  
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 3 - Provisional flows - Subject to Correction  
 a - Partly estimated  
 b - Average of all past record - less than 15 years  
 e - Maximum mean daily peak flow  
 + - 1963-77 15 year Average Period

## PEAK FLOWS<sup>e</sup>

FORECAST POINT	PEAK FLOW (THOUSAND FEET)	
	Forecast Range	Average †
Sevier River at Hatch	750-850	418
Sevier River nr Kingston	450-650	263
Beaver River nr Beaver	340-610	211

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
Big Flat	2/25	67	19.3	18.2	12.8
Bryce Canyon	2/23	29	7.9	4.9	3.9
Castle Valley	2/24	52	17.1	11.5	10.6
Duck Creek	2/24	52	15.7	8.0	10.7
Farnsworth Lake	2/23	54	16.1	18.1	15.1
Gooseberry R.S.	2/23	36	10.0	11.5	10.1
Harris Flat	2/23	37	11.5	4.8	6.9
Kimberly Mine	2/25	53	15.7	14.1	12.3

## SNOW

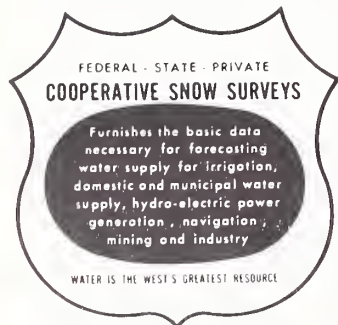
DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
Long Valley Junction	2/23	23	7.1	2.8	4.0
Merchants Valley Upper	2/25	53	14.9	9.6	9.6 <sup>b</sup>
Midway Valley	2/24	81	28.3	12.2	16.6
Oak Creek	2/25	55	17.6	8.5	10.0 <sup>a</sup>
Otter Lake	2/25	55	15.5	16.4	9.9
Pickle Keg Springs	2/23	55	17.4	16.8	13.2 <sup>a</sup>
Pine Creek	2/25	58	19.0	13.6	13.1
Ree's Flat	2/25	59	17.9	14.8	10.3 <sup>b</sup>
Widtsoe-Escalante #3	2/23	41	11.6	10.1	8.3

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

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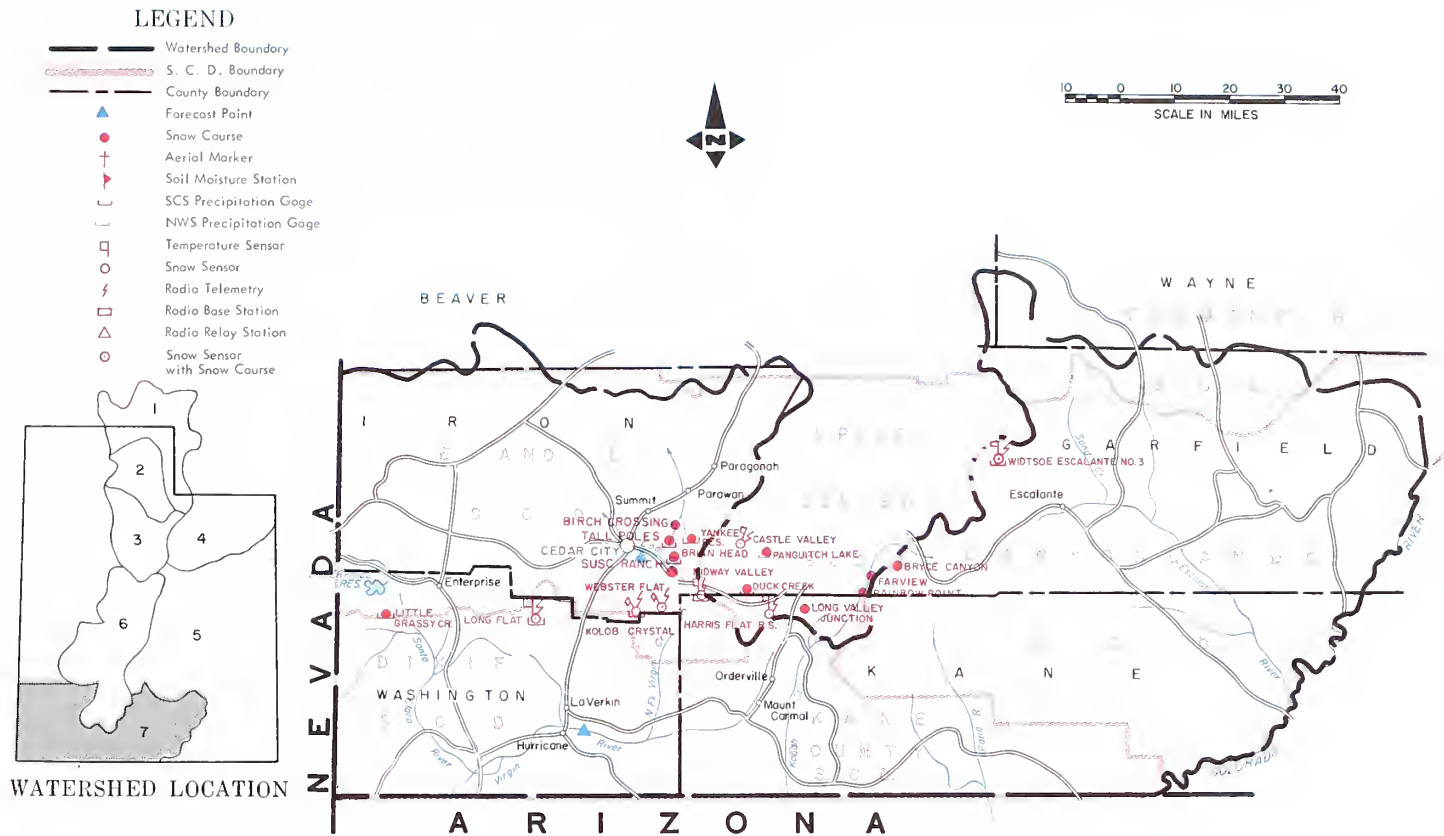
# FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

# WATER SUPPLY OUTLOOK

## EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MARCH 1, 1983

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

**SNOW COVER** ranges from 134% of average on the Enterprise-New Harmony drainages to 169% on Coal Creek. Virgin River is 158% and Parowan Creek 142% of the March 1 average. SNOTEL readings indicate an additional 3-4 inches of snow water increase in the week following the snow surveys.

**PRECIPITATION** at mountain stations ranged from 80% of the February average at Webster Flat to 144% at Tall Poles in Parowan Canyon.

**SOIL MOISTURE** is above average under the snow pack.

**RESERVOIR STORAGE** is above average with Gunlock reported full and Baker reservoir almost full.

**STREAMFLOW FORECASTS** range from 96% for the Inflow to Lake Powell to 163% for Santa Clara Creek. Coal Creek is forecast 162% and Virgin River 148% of average. Peak flows in this area are expected to be higher than average and precautions should be taken to protect property near stream channels.

## EAST GARFIELD, KANE, WASHINGTON AND IRON COUNTIES IN UTAH

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
VIRGIN RIVER					
Virgin nr Hurricane	72	148	Apr-June	52	48.0
Santa Clara nr Pine Valley	6.7	163	Apr-June	--	4.1
COAL CREEK					
Coal Creek nr Cedar City	27	162	Apr-July	22	17.0
UPPER COLORADO					
Lake Powell Inflow	6700	96	Apr-July	--	6952.0

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
COAL CREEK	3	213	169
VIRGIN RIVER	3	214	158
PAROWAN CREEK	4	149	142
ENTERPRISE - NEW HARMONY	2	256	134
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 15 years e - Maximum mean daily peak flow + - 1963-77 15 year Average Period			

## RESERVOIR STORAGE (Thousand Acre Foot)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
COLORADO	Lake Powell	25002.0	22231.0	1947.0	--
		829.5	478.4	267.0	--
	Blue Mesa				

PEAK FLOWS<sup>e</sup>

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Coal Creek nr Cedar City	400-500	450
Virgin nr Virgin		

## SNOW

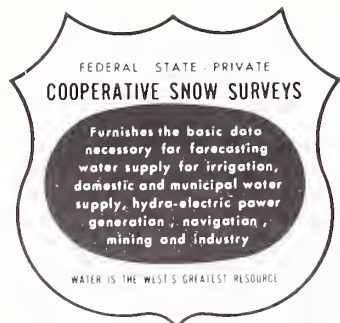
DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Birch Crossing	2/28	27	8.0	5.6	6.0 <sup>b</sup>
Brian Head	2/23	65	21.8	16.2	16.3 <sup>b</sup>
Harris Flat	2/23	37	11.5	4.8	6.9
Kolob-Crystal	2/24	74	26.2	11.6	17.3 <sup>a</sup>
Little Grassy	2/24	8	2.8	1.1	3.6
Long Flat	2/24	32	9.5	3.7	5.6

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Long Valley Junction	2/23	23	7.1	2.8	4.0
SUSC Ranch	2/28	45	13.5	6.3	7.5 <sup>b</sup>
Tall Poles	2/28	51	17.8	10.5	11.5 <sup>b</sup>
Webster Flat	2/24	61	22.4	11.6	13.9
Yankee Reservoir	2/24	36	10.8	6.9	7.4

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# FIRST CLASS MAIL

*"The Conservation of Water begins with the Snow Survey"*



# SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)			FROM APPROX. OCT 1 TO DATE		
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
				Last Year	Average †						
GREAT BASIN CONT.											
PROVO RIVER & UTAH LAKE											
Beaver Creek Divide	2/25	36	8.6	13.3	10.9 <sup>a</sup>	3/1	4.30 <sup>a</sup>		14.30 <sup>a</sup>		
Camp Altamont	2/26	55	19.2	17.1	13.4						
Clear Creek Ridge #1	2/22	50	15.1	19.1	15.6	3/1	3.10 <sup>a</sup>		16.80 <sup>a</sup>		
Clear Creek Ridge #2	2/22	42	12.0	16.1	11.8	2/22	2.95	2.48 <sup>b</sup>	14.34	13.35 <sup>b</sup>	107
Clear Creek Ridge #3	2/22	31	8.0	10.1	6.9						
Dutchman R.S.	2/26	59	19.1	22.0	14.4	2/26					
Hobble Creek Summit	2/22	50	14.0	16.8	12.3	2/22	4.04	4.39 <sup>b</sup>	17.34	17.75 <sup>b</sup>	98
Payson R.S.	2/25	55	17.9	19.2	16.5 <sup>b</sup>	2/25	2.44		16.42	14.49	113
Soapstone R.S.	2/25	35	9.2	13.9	11.1	2/25	2.74	3.01	12.89	15.05	86
South Fork R.S.	2/25	42	12.9	9.4	6.1						
Timpanogos Cave Camp	2/25	10	3.0	2.4	2.4						
Timpanogos Divide	2/26	73	26.1	23.0	21.5	2/26	4.05	4.30	25.45	21.73	117
Trial Lake	2/25	62	18.1	28.1	20.0	2/24	4.15	3.87	20.62	20.07	103
JORDAN RIVER & GREAT SALT LAKE											
Lamb's Canyon #2	2/25	47	13.9	17.8	--	2/25	2.80		13.00		
Middle Canyon	2/27	56	15.6	9.3	12.1	2/27		2.79		13.02	
Mill Creek	2/24	58	17.7	19.3	--						
Mill D South Fork	2/24	59	18.4	21.5	17.1						
Silver Lake (Brighton)	2/24	67	23.0	26.2	19.6						
Snow Bird (Gad Valley)	2/26	101	31.4	35.0	--						
Vernon Creek	2/27	56	16.0	8.6	9.3 <sup>a</sup>	2/27	4.65		19.60	12.76 <sup>b</sup>	154
Deseret Peak				24.6	--						
COLORADO RIVER DRAINAGE											
UPPER GREEN RIVER - UTAH											
Ashley-Twin Lakes (A)	3/3	69	17.9								
Black's Fork G.S.-East Fork	2/24	25	6.0	11.0	7.4	2/24	2.00		14.04	9.51	148
Black's Fork Junction	2/24	26	5.7	9.7	7.4	2/24	1.77			9.37	
Buck Pasture (A)	3/3	61	13.4								
Burnt Creek	2/28	19	4.1	3.2	4.2 <sup>b</sup>	2/28	0.40	1.23 <sup>b</sup>	7.00	7.32 <sup>b</sup>	96
Grizzly Ridge	2/28	42	11.7	6.0	8.0 <sup>b</sup>	2/28	1.85	1.80 <sup>b</sup>	13.75	10.55	130
Hewinta G.S.	2/24	28	7.4	10.3	7.3	2/24	1.90		9.61	10.06	95
Hickerson Park	2/24	25	5.3	6.2	5.0 <sup>b</sup>	2/24	0.73		7.25	7.65 <sup>b</sup>	95
King's Cabin (upper)	2/24	41	11.6	8.6	8.1	2/24	1.23		10.84	9.24	117
Reynolds Park (A)	3/3	73	21.9								
Spirit Lake	2/24	36	10.3	11.6	9.7						
Steel Creek Park	2/24	50	12.3	17.5	12.8 <sup>b</sup>	2/24	1.43		11.98	11.04	109
Trout Creek	2/24	41	11.4	8.3		2/24	2.19		9.25		
Henrys Fork (A)	3/3	43	10.8			2/24	1.02		11.47		
DUCHESNE RIVER											
Atwood Lake (A)											
Brown Duck Ridge	2/24	65	18.8	20.7	14.1 <sup>a</sup>	2/24	2.00		14.04		
Chepeta	2/24	49	13.0	11.8		3/1	2.10 <sup>a</sup>		12.40 <sup>a</sup>		
Currant Creek	2/22	39	10.3	10.1	7.8 <sup>a</sup>	2/22	2.78		11.98		
Daniels-Strawberry Summit	2/22	49	14.6	14.8	12.3	2/22	3.92	3.10	15.89	15.13	105
East Portal	3/1	57	12.8	15.0	9.6	3/1	5.09	3.08	16.80	14.22	
Five Points Lake (A)											
Indian Canyon	2/22	47	14.3	13.1	10.1	2/22	2.21	2.18	13.48	10.87	124
Jackson Park	2/24	49	13.6	11.3	12.2 <sup>a</sup>	2/24	1.70		12.64		
Lakefork Basin (A)											
Lakefork Mountain #1	2/24	42	11.0	9.6	9.0	2/24	1.62	1.86	11.53	10.54	109
Lakefork Mountain #3	2/24	27	6.4	4.6	5.3						
Lightning Lake (A)											
Mosby Mountain	2/24	37	10.5	7.5	7.7	2/24	1.61	1.66 <sup>b</sup>	12.52	10.53	119
Paradise Park	2/24	51	16.1	13.1	10.2	2/24	1.91	1.91 <sup>b</sup>		11.27	
Rock Creek Ranch	2/24	30	8.0	7.4	5.2 <sup>a</sup>	2/24	1.92		11.63		
Strawberry Divide	3/1	71	19.8	20.9	16.5	3/1	5.10 <sup>a</sup>		19.90 <sup>a</sup>		
Chepeta-Whiterocks(A)	3/3	65	16.2								

# SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
GREAT BASIN											
UPPER BEAR RIVER (Above Harer, Idaho)											
Burts-Miller Ranch	2/24	16	3.6	5.8	--	2/24	1.11	0.93 <sup>b</sup>	6.71	7.25 <sup>b</sup>	93
CCC Camp	2/24	33	8.8	11.8	11.1			--		--	
Hayden Fork	2/24	36	10.3	15.1	12.7 <sup>a</sup>	2/24	2.70	2.87 <sup>a</sup>	10.32	12.86 <sup>a</sup>	80
Monte Cristo R.S.	2/22	51	17.7	24.8	22.0	2/22	3.84	4.15 <sup>b</sup>	17.50	21.27	82
Salt River Summit	2/25	40	10.6	17.8	14.4	2/25	2.12	2.91	12.10	14.26	85
Stillwater Camp	2/24	29	7.5	11.0	--	2/24	1.89	1.64 <sup>b</sup>	9.52	10.09 <sup>b</sup>	94
Lily Lake	2/24	40	9.1	15.6	--	2/24	2.13	2.23 <sup>b</sup>	10.40	12.11 <sup>b</sup>	86
LOWER BEAR RIVER (Below Harer, Idaho)											
Bug Lake	2/22	44	11.8	22.9	15.6 <sup>a</sup>	2/22	2.49	5.28 <sup>b</sup>	10.45	18.21 <sup>b</sup>	57
Christensen Ranch	2/23	32	9.2	9.5	7.9			--		--	
Cliff Canyon	2/23	52	19.2	10.0	--			--		--	
Cub River R.S.	2/23	27	8.3	8.4	8.4			--		--	
Daniels Creek	2/23	28	7.3	7.1	--			--		--	
Dry Basin	2/23	72	24.8	30.7	24.2 <sup>b</sup>			--		--	
Dry Creek Flat	2/23	27	8.3	9.3	7.4			--		--	
Emigrant Summit	3/1	70	22.4	29.4	21.7			--		--	
Emigration Canyon	3/1	38	10.7	11.4	9.7			--		--	
Franklin Basin	2/23	56	18.8	26.2	22.7	3/1	5.00 <sup>a</sup>	5.78 <sup>a</sup>	22.30 <sup>a</sup>	21.23 <sup>a</sup>	105
Garden City Summit	2/22	39	11.6	18.2	15.3	2/22	3.64	3.47	14.30	15.80	90
Horseshoe Basin	2/23	66	23.3	27.5	22.0 <sup>b</sup>			--		--	
Klondike Narrows	2/22	48	14.2	21.5	17.3	2/22	2.98	4.99 <sup>b</sup>	16.31	19.93 <sup>b</sup>	82
Liberty Spring	2/23	89	32.5	46.9	32.7			--		--	
Little Bear (lower)	2/22	34	9.7	9.9	9.2			--		--	
Little Bear (upper)	2/22	40	11.2	11.5	10.9	2/22	3.64	3.19 <sup>a</sup>	20.11	17.14 <sup>b</sup>	117
Lower Elkhorn	2/23	43	13.2	18.0	12.7 <sup>b</sup>			--		--	
Oxford Mountain	2/23	30	8.4	11.6	9.4 <sup>b</sup>			--		--	
Slug Creek Divide	3/1	44	12.8	17.3	14.8			--		--	
Steep Hollow #1	2/22	84	28.7	41.1	30.8			--		--	
Steep Hollow #2	2/22	64	21.1	26.7	22.4			--		--	
Strawberry Creek	3/1	33	11.5	10.9	9.6			--		--	
Strawberry Mink Divide	2/23	56	18.4	21.0	18.7			--		--	
Tony Grove Lake	2/22	78	26.1	40.5	28.4 <sup>a</sup>	3/1	5.10 <sup>a</sup>	5.76 <sup>a</sup>	23.14 <sup>a</sup>	31.69 <sup>a</sup>	73
Tony Grove R.S.	2/22	43	10.8	12.8	10.9	2/22	2.79	3.10 <sup>b</sup>	12.73	14.93 <sup>b</sup>	85
Upper Elkhorn	2/23	54	17.8	20.3	16.4 <sup>b</sup>			--		--	
Willow Flat	2/23	42	12.9	14.9	13.9	2/23	3.62	3.71	20.06	18.85	106
Worm Creek	2/23	49	16.0	16.9	--			--		--	
OGDEN RIVER											
Beaver Creek-Skunk Creek	2/22	28	9.8	12.2	10.8			--		--	
Ben Lomond Peak	2/22	99	35.2	34.7	29.1			7.67 <sup>b</sup>		34.23 <sup>b</sup>	
Ben Lomond Trail	2/22	62	20.0	19.6	15.7 <sup>b</sup>	2/22	5.42	4.47 <sup>b</sup>	26.05	24.98 <sup>b</sup>	104
Causey Dam						2/22	2.10	2.42 <sup>b</sup>	9.69	11.91	81
Dry Bread Pond	2/22	40	13.0	18.4	16.0	3/1	2.60 <sup>a</sup>	3.47 <sup>b</sup>	13.30 <sup>a</sup>	16.96 <sup>b</sup>	78
Sagebrush Flat	2/22	16	4.8	6.5	5.0			2.58		12.07	
WEBER RIVER											
Beaver Creek R.S.	2/25	27	6.9	9.9	7.5			--		--	
Chalk Creek #1	2/24	58	17.7	24.9	18.0	3/1	4.00 <sup>a</sup>	4.60 <sup>a</sup>	18.40 <sup>a</sup>	18.38 <sup>a</sup>	100
Chalk Creek #2	2/24	41	10.8	15.0	12.2	3/1	2.70 <sup>a</sup>	2.24 <sup>b</sup>	11.80 <sup>a</sup>	13.17 <sup>b</sup>	90
Chalk Creek #3	2/24	26	6.3	7.8	6.7	2/24	1.97	1.82 <sup>b</sup>	10.26	11.26 <sup>b</sup>	91
Farmington Canyon (lower)	2/22	80	25.2	20.4	18.4 <sup>b</sup>	2/22	8.94	4.04 <sup>b</sup>		22.40	
Farmington Canyon (upper)	2/22	91	30.6	27.9	25.3 <sup>b</sup>	2/22	10.37 <sup>a</sup>	6.17 <sup>a</sup>	30.43 <sup>a</sup>	22.44 <sup>a</sup>	136
Farmington G.S.	2/22	74	--	18.9 <sup>a</sup>	--	2/22	8.25	4.21 <sup>b</sup>	--	19.40 <sup>b</sup>	
Hardscrabble	2/22	55	17.5	16.1	--			--		--	
Horse Ridge	2/22	52	16.1	22.2	18.2 <sup>b</sup>	2/22	3.91	3.79 <sup>b</sup>	18.18	19.40 <sup>b</sup>	94
Kilfoil Creek	2/22	43	12.2	14.1	11.6 <sup>b</sup>			--		--	
Lost Creek Reservoir	2/22	17	5.2	7.1	4.9 <sup>b</sup>	2/22	2.82	1.72 <sup>b</sup>	8.20	9.16 <sup>b</sup>	90
Park City Summit	3/1	100	34.2	38.8	--			--		--	
Parley's Canyon Summit	2/25	54	15.3	17.8	16.1	2/25	4.26	3.68	17.15	18.48	93
Pine Canyon	2/22	48	16.1	16.9	--			--		--	
Redden Mine (lower)	2/24	49	14.8	16.9	15.0	2.24	3.14	--	15.28	--	
Smith & Morehouse	2/24	39	11.0	13.0	11.4	2.24	3.08	2.81	13.46	14.71	92
Sargeant Lake (A)	3/3	36	10.4								



# SNOW

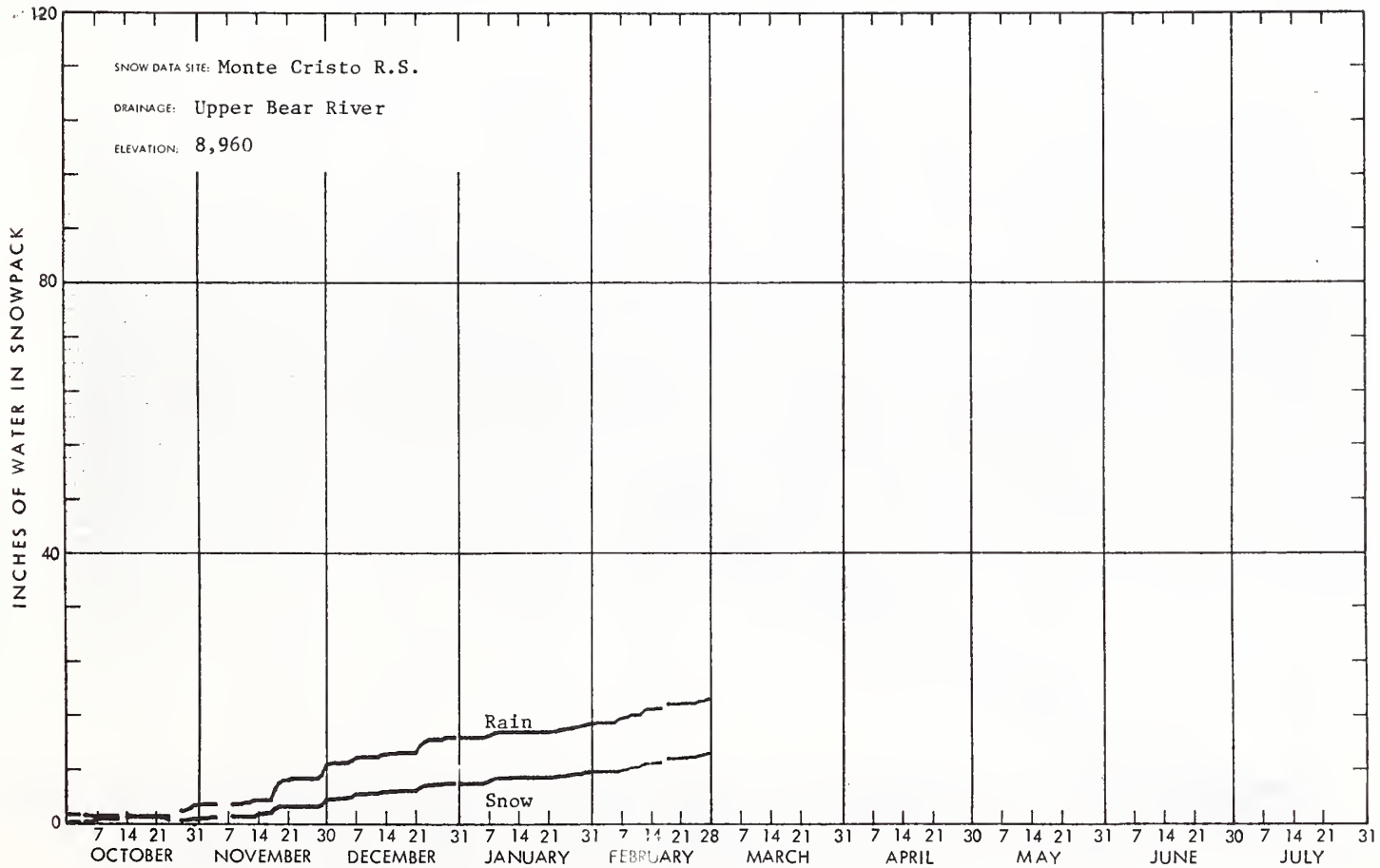
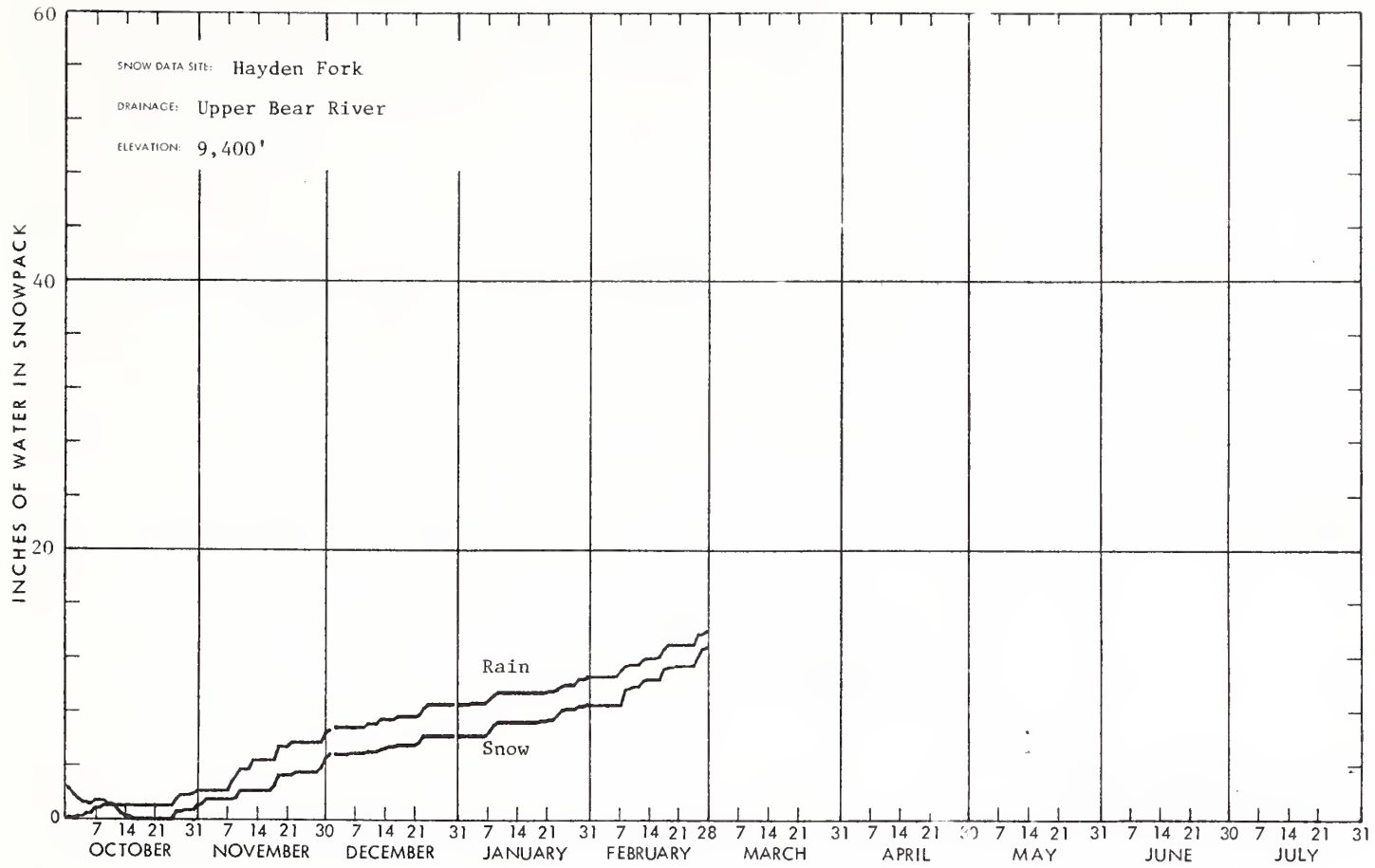
DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)			FROM APPROX. OCT. 1 TO DATE		
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
				Last Year	Average †						
PRICE RIVER											
Dry Valley Divide Alternate	2/22	38	10.3	12.5	--						
Mud Creek	2/22	45	11.4	16.4	11.4	2/22	0.84	2.49	--	11.69	--
White River #1	2/22	43	12.6	14.9	11.3	2/22	3.22		13.01	11.08	117
White River #3	2/22	30	7.8	10.7	7.6						
SAN RAFAEL RIVER											
Buck Flat	2/23	60	17.7	20.1	13.3	2/23	3.16	3.21	16.63	14.50	115
Huntington-Horseshoe	2/22	77	28.0	26.0	19.5 <sup>a</sup>						
Orange Olsen	2/22	32	8.5	6.6	--	2/22	1.49	1.17	15.69	6.39	246
Red Pine Ridge	2/22	58	17.6	19.6	14.3	3/1	3.60 <sup>a</sup>	3.48	18.00 <sup>a</sup>	16.25	111
Seeley Creek R.S.	2/22	58	19.3	15.7	13.4	3/1	3.20 <sup>a</sup>		12.70 <sup>a</sup>		
Stuart R.S.	2/22	35	9.2	11.2	--	2/22	2.29		8.99		
Upper Joe's Valley	2/22	42	11.4	12.7	8.8						
Wrigley Creek	2/23	44	12.3	12.8	8.9						
MUDDY RIVER											
Black's Fork	2/23	44	14.1	16.1	10.8 <sup>a</sup>						
Dill's Camp	2/23	42	13.0	14.7	9.8 <sup>a</sup>	2/23	2.17		14.80		
FREMONT RIVER											
Black's Flat-U.M. Creek	2/23	41	11.7	1.4	8.9	2/23	1.98		8.99	9.64 <sup>b</sup>	93
Fish Lake	2/23	38	12.2	8.4	6.6	2/23	1.96	1.15	7.71	7.50	103
Johnson Valley	2/23	33	8.5	7.4	5.6						
SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat	2/24	48	13.9	6.7	8.8	2/24	3.30		17.00	15.18	112
Camp Jackson	2/24	54	17.4	8.6	10.3	2/24	3.80		18.60	14.27	130
LaSal Mountain (lower)	2/24	48	13.2	5.0	7.1						
LaSal Mountain (upper)	2/24	68	19.5	12.1	11.6 <sup>b</sup>	2/24	4.40		18.35	11.04	166
Monticello City Park	2/24	0	0.0	0.0	--						
UPPER SEVIER RIVER (South of Richfield, Utah)											
Box Creek	2/23	50	14.7	13.0	10.7	3/1	3.30 <sup>a</sup>		15.99 <sup>a</sup>	11.10	144
Bryce Canyon	2/23	29	7.9	4.9	3.9						
Castle Valley	2/24	52	17.1	11.5	10.6	2/24	2.24		15.76	11.12	142
Duck Creek R.S.	2/24	52	15.7	8.0	10.7	2/24	1.95	2.35 <sup>b</sup>	22.99	13.25	174
Farview											
Harris Flat	2/23	37	11.5	4.8	6.9	3/1	1.30 <sup>a</sup>		12.90 <sup>a</sup>		
Kimberly Mine	2/25	53	15.7	14.1	12.3	2/25	3.43	3.18 <sup>b</sup>	18.60	14.38	129
Midway Valley	2/24	81	28.3	12.2	16.6	3/1	5.80 <sup>a</sup>		29.00 <sup>a</sup>		
Panguitch Lake	2/24	36	11.1	3.6	3.8	2.24	1.37		10.31	6.51 <sup>b</sup>	158
Squaw Springs	2/23	32	9.1	7.6	6.1						
LOWER SEVIER RIVER (Including San Pitch River)											
Beaver Dams	2/23	40	11.1	11.0	9.6 <sup>b</sup>	2/23	2.95		15.02	10.66	141
Farnsworth Lake	2/23	54	16.1	18.1	15.1	2/23	3.65	3.59	10.34	15.23	68
G.B.R.C. Headquarters	2/22	58	17.5	14.1	13.0	2/22	4.24	2.69	17.79	14.21	125
G.B.R.C. Majors								1.30		6.95	
G.B.R.C. Meadows	2/22	79	26.1	24.3	18.6	2/22	5.39	3.59	18.50	17.57	105
G.B.R.C. Oaks								1.88		9.70	
Gooseberry R.S.	2/23	36	10.0	11.5	10.1	2/23	2.31	2.38 <sup>b</sup>	11.62	9.87 <sup>b</sup>	118
Mammoth-Cottonwood Creek	2/22	69	21.7	23.3	17.4	3/1	4.60 <sup>a</sup>		16.90 <sup>a</sup>		
Mt. Baldy R.S.	2/23	77	23.5	25.8	18.6 <sup>b</sup>	2/23	2.47		14.09	13.76	102
Oak Creek	2/25	55	17.6	8.5	10.0 <sup>a</sup>	2/25	4.19		13.30		
Pickle Keg Springs	2/23	55	17.4	16.8	13.2 <sup>a</sup>	3/1	3.94 <sup>a</sup>		20.44 <sup>a</sup>		
Pine Creek	2/25	58	19.0	13.6	13.1	2/25	4.11		20.44	18.53	110
Ree's Flat	2/25	59	17.9	14.8	10.3 <sup>b</sup>	2/25	3.31		16.89		
Shingle Mill	3/1	33	10.4	6.1	7.6	3/1	3.45	2.33 <sup>b</sup>	14.35	12.58	114
Gooseberry Reservoir						2/22	4.25	2.38 <sup>b</sup>	18.50	15.36	120

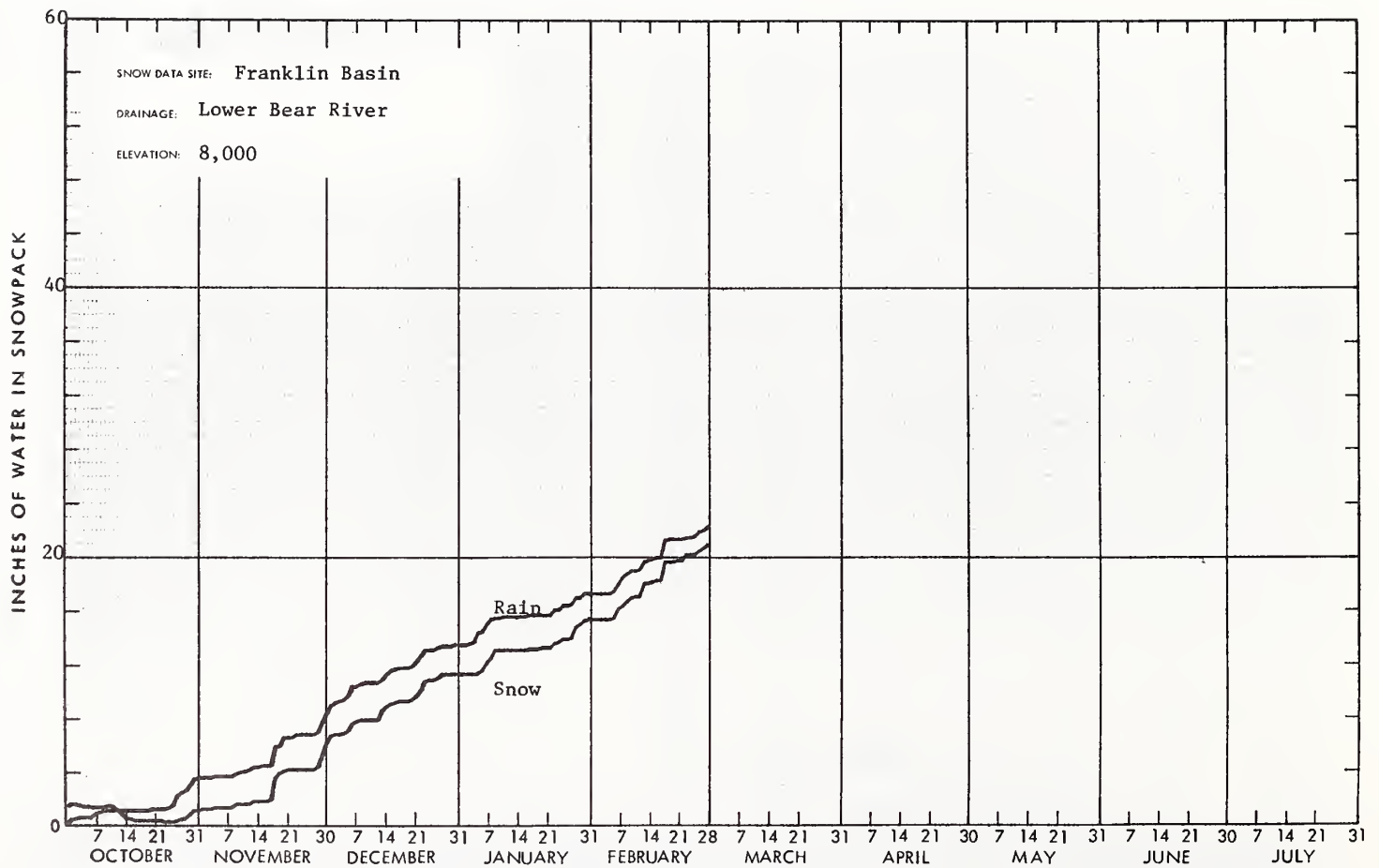
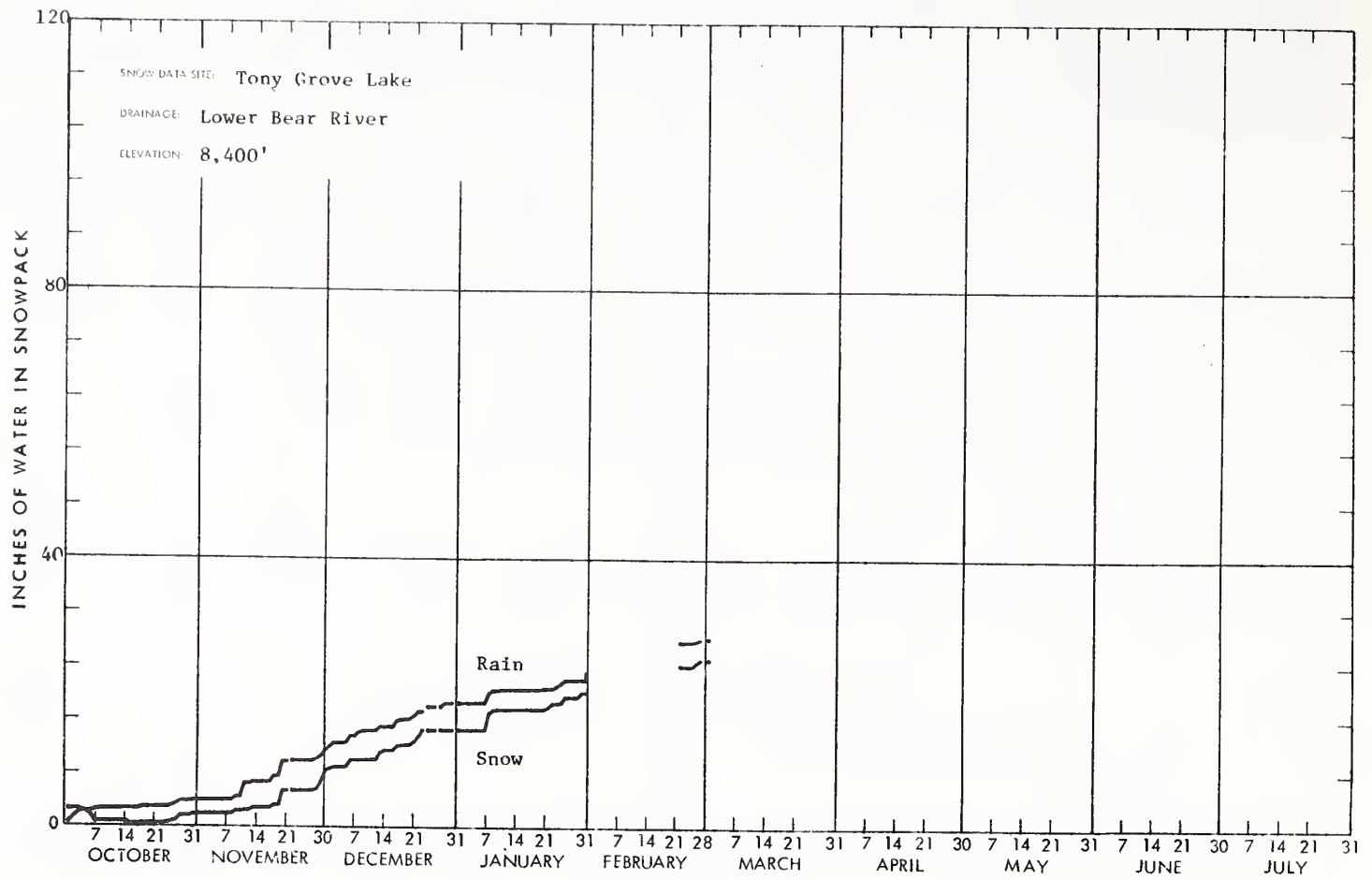


# SNOW

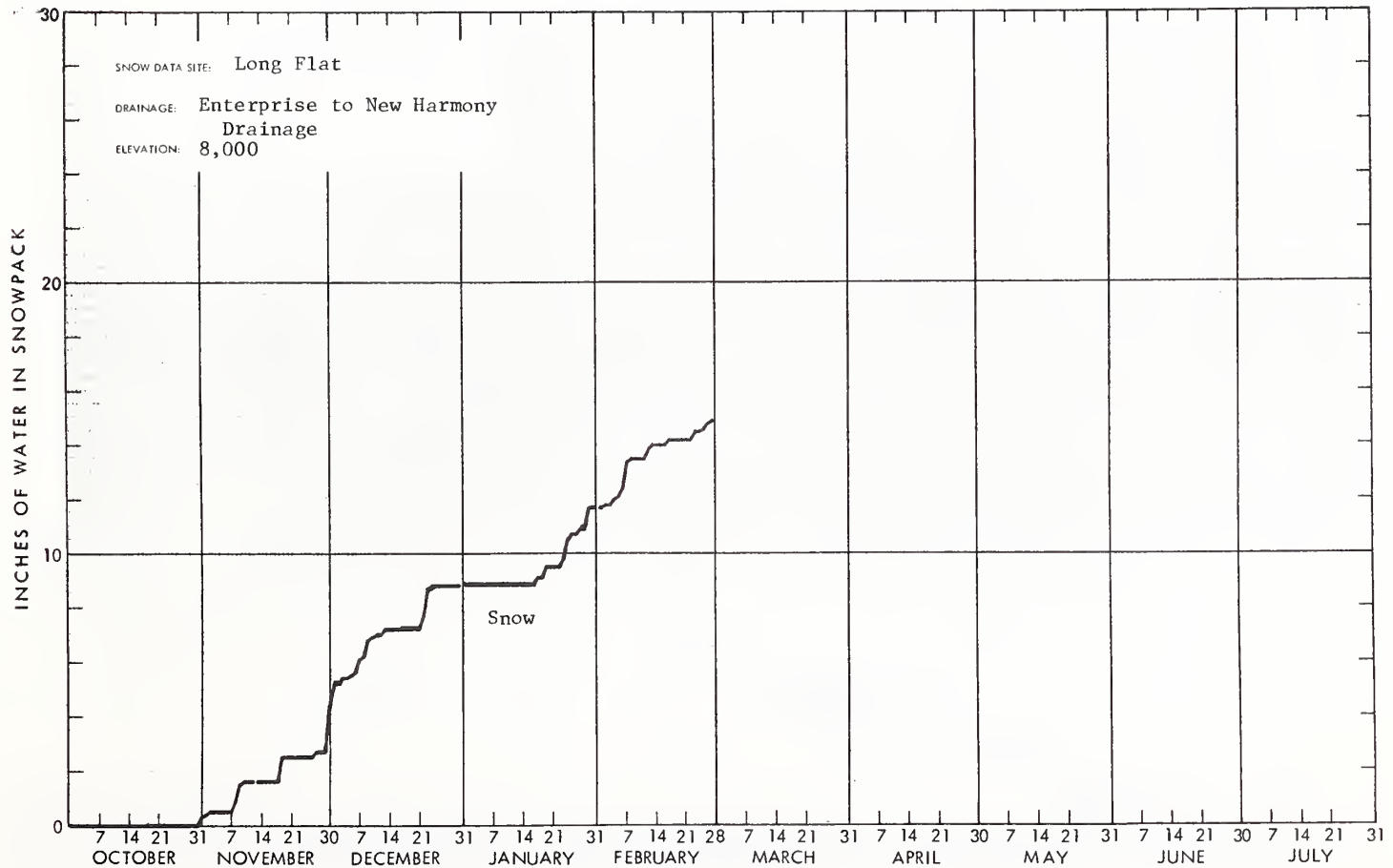
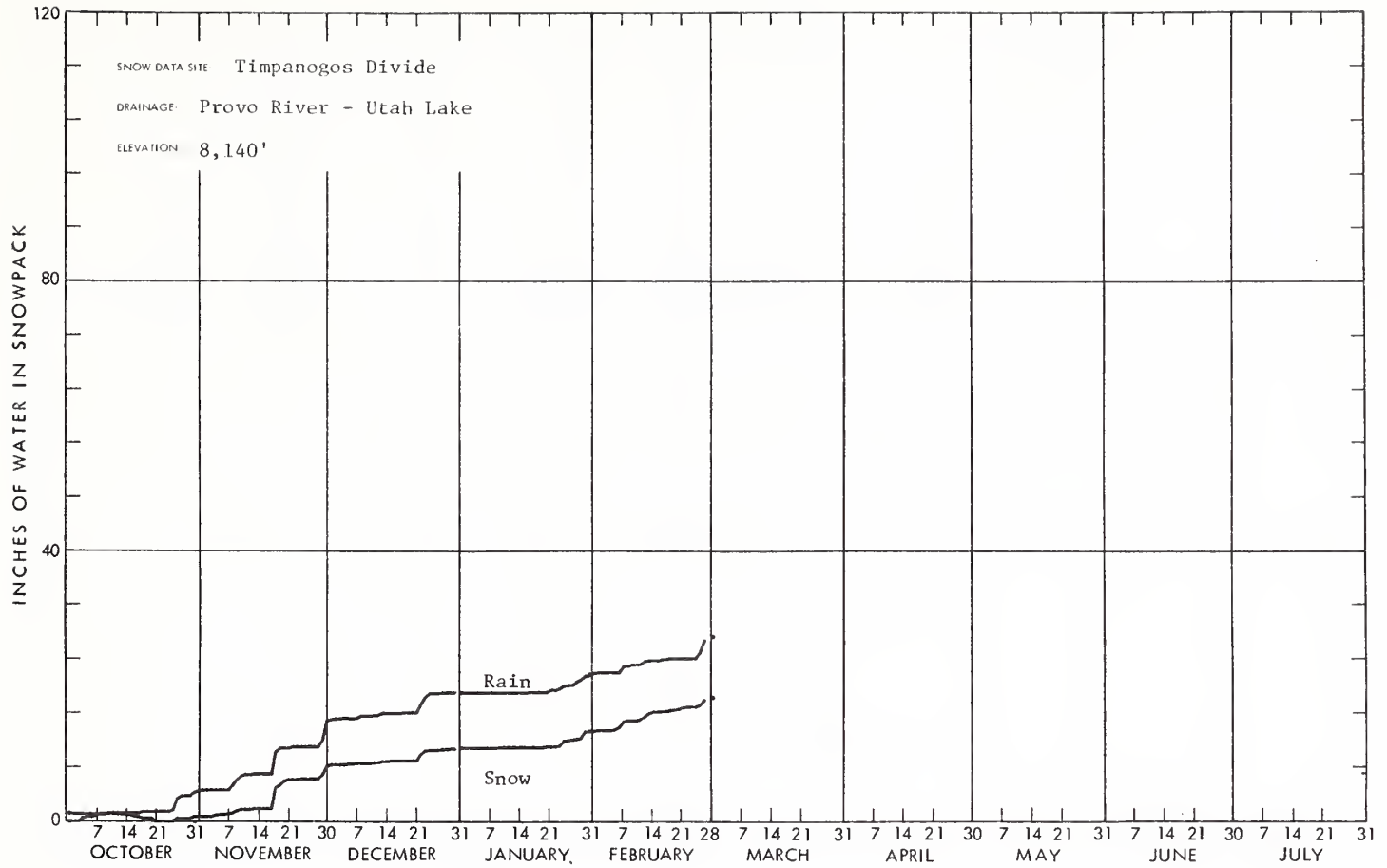
# PRECIPITATION (Inches)

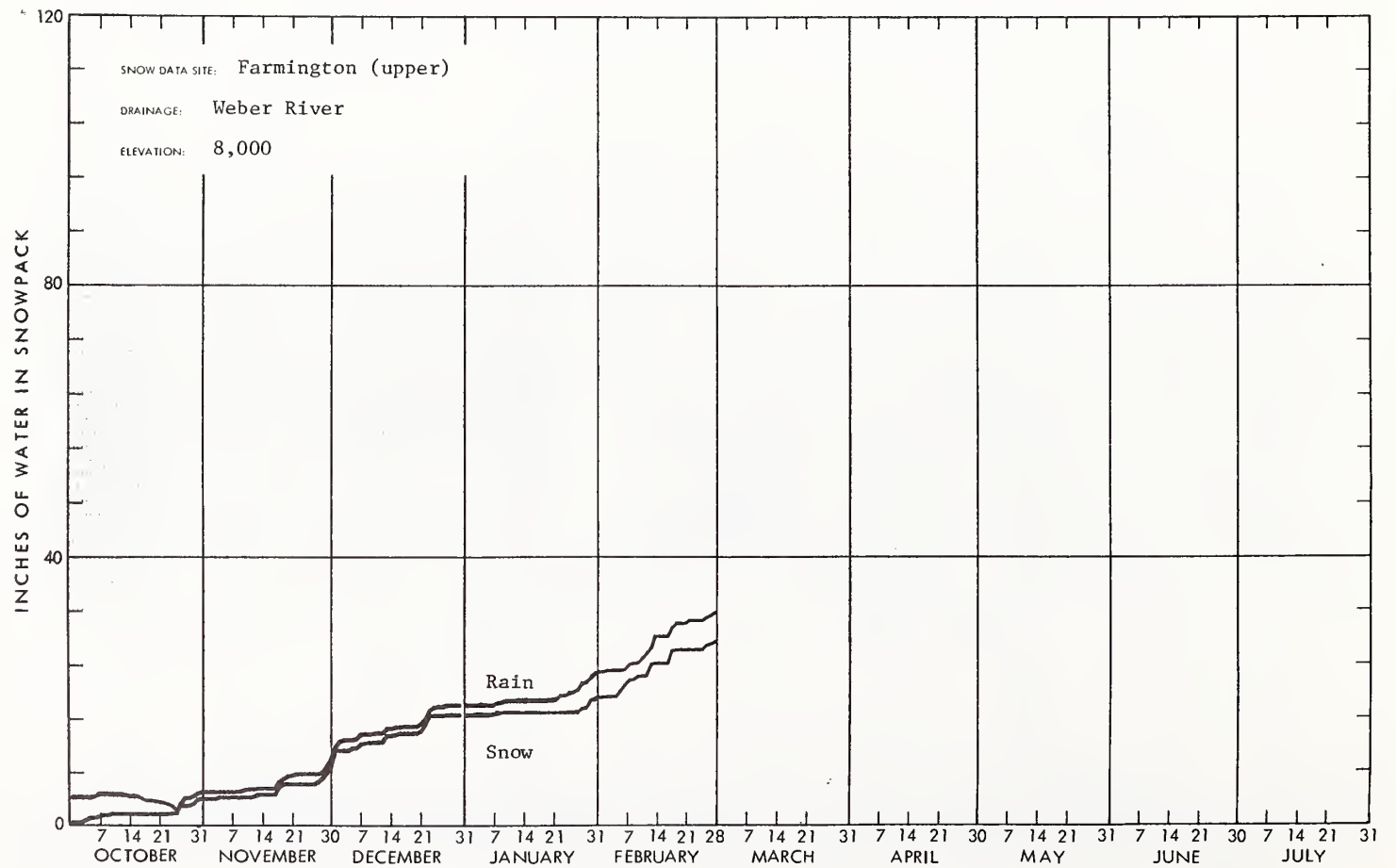
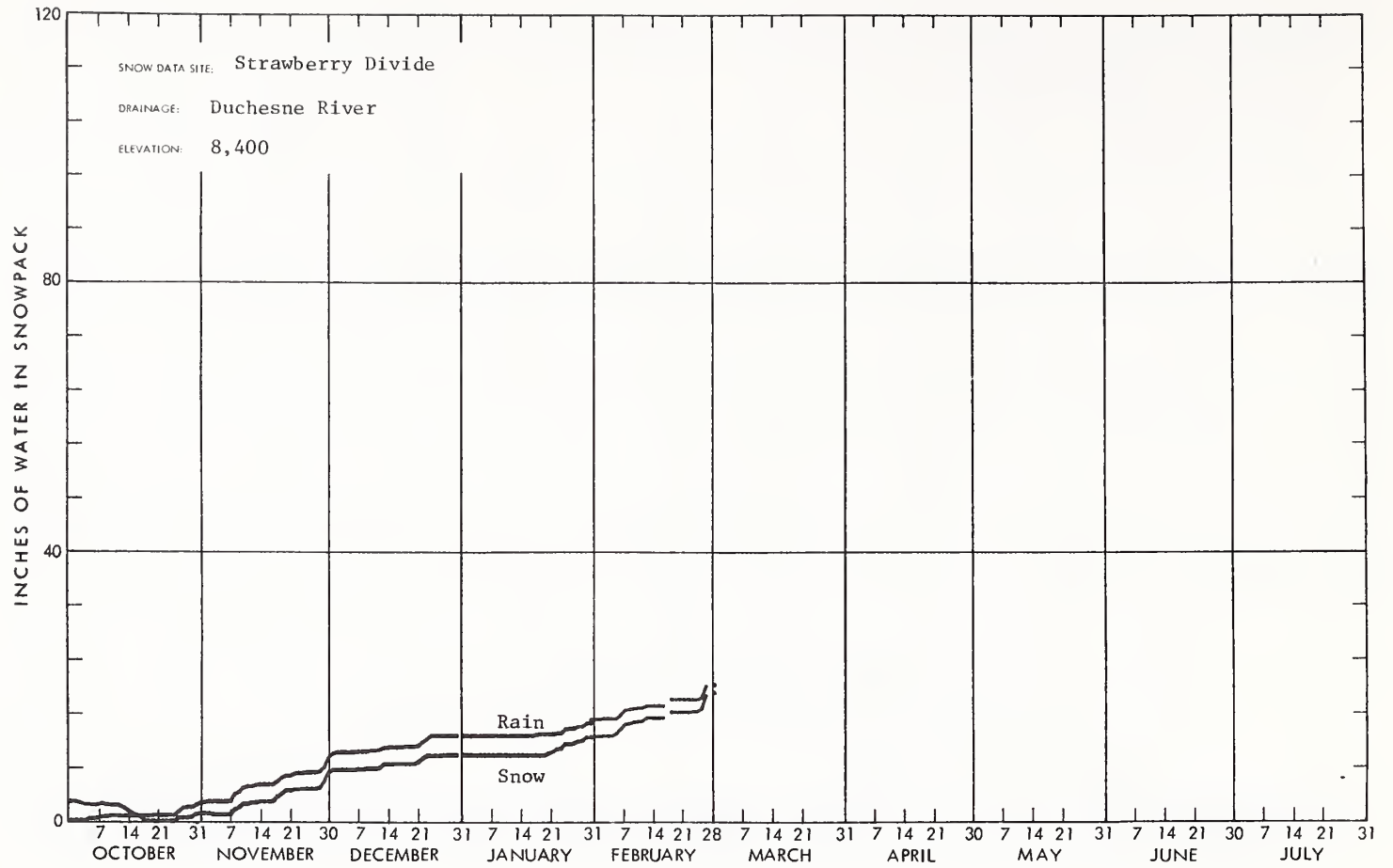
DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
				Last Year	Average †						
BEAVER RIVER											
Beaver Canyon Power House	2/28	0	0.0	0.0	--						
Beaver Race Track	2/25	67	19.3	18.2	12.8	2/25	3.75	2.60	15.99	12.53	128
Big Flat	2/25	53	14.9	9.6	9.6 <sup>b</sup>	2/25	3.21	2.11 <sup>b</sup>	16.65	11.29	147
Merchant's Valley (upper)	2/25	55	15.5	16.4	9.9						
Otter Lake											
PAROWAN CREEK											
Birch Crossing	2/28	27	8.0	5.6	6.0 <sup>b</sup>						
Brian Head	2/23	65	21.8	16.2	16.3 <sup>b</sup>						
Tall Poles	2/28	51	17.8	10.5	11.5 <sup>b</sup>	2/28	3.45	2.39 <sup>b</sup>	14.35	11.87 <sup>b</sup>	121
Yankee Reservoir	2/24	36	10.8	6.9	7.4	2/24	1.91		11.71	9.40 <sup>b</sup>	125
ENTERPRISE TO NEW HARMONY DRAINAGES											
Little Grassy Creek	2/24	8	2.8	1.1	3.6	2/24	3.35			12.33 <sup>b</sup>	
Long Flat	2/24	32	9.5	3.7	5.6	2/24	1.62		12.02	9.23	130
COAL CREEK											
Cedar City Golf Course	2/28	0	0.0	0.0	--						
SUSC Ranch	2/28	45	13.5	6.3	7.5 <sup>b</sup>						
ESCALANTE RIVER											
Widtsoe-Escalante #3	2/23	41	11.6	10.1	8.3	2/23	1.60	2.08	9.46	9.67	98
VIRGIN RIVER											
Kolob-Crystal	2/24	74	26.2	11.6	17.3 <sup>a</sup>	3/1	4.00 <sup>a</sup>		25.90 <sup>a</sup>		
Long Valley Junction	2/23	23	7.1	2.8	4.0						
Webster Flat	2/24	61	22.4	11.6	13.9	2/24	2.81	3.53	20.84	15.15	138
a - Partly Estimated b - Average of past record in average period - less than 15 years + - 1963-77 15 year average period (A) - Aerial Marker Reading											

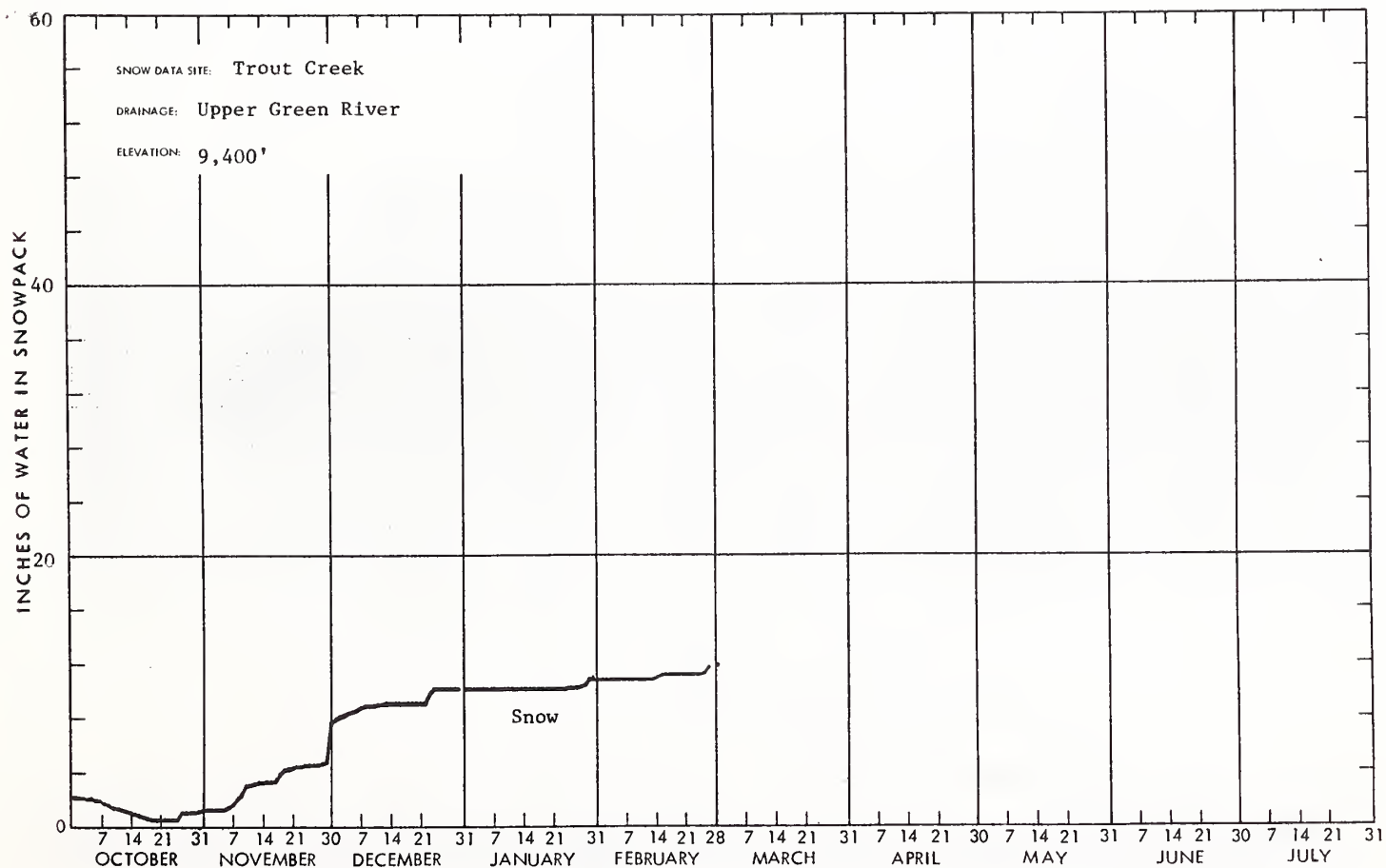
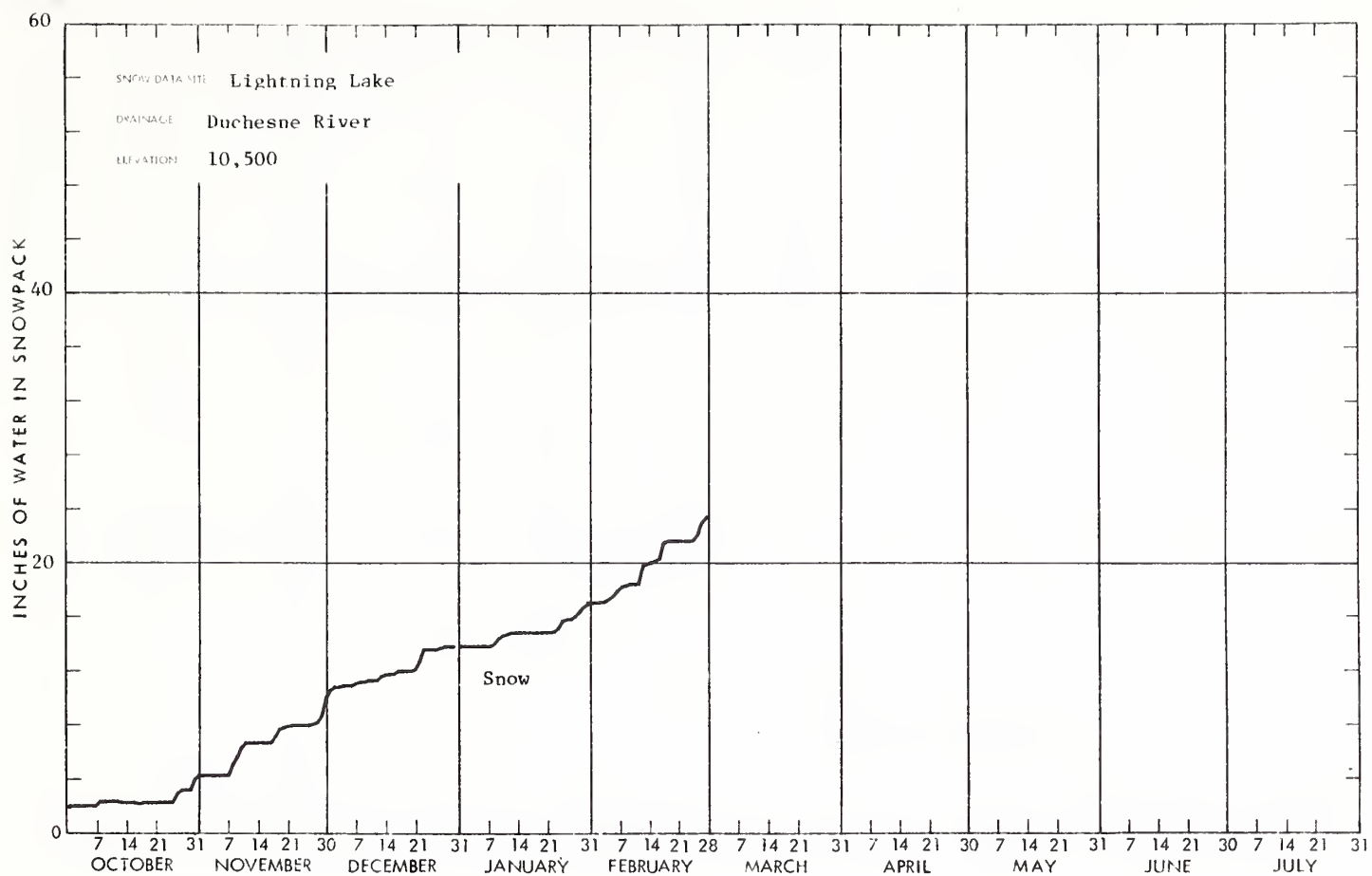




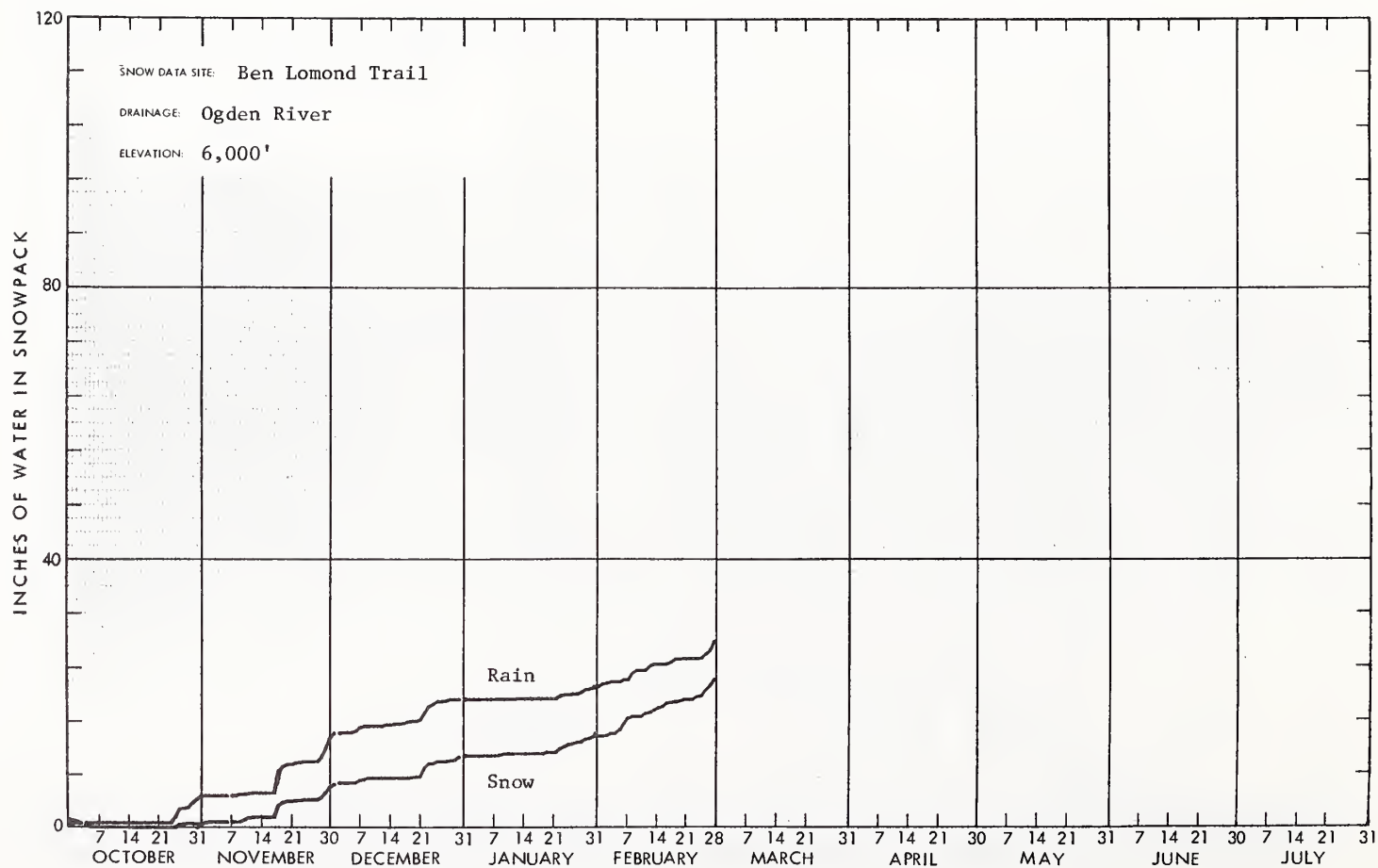
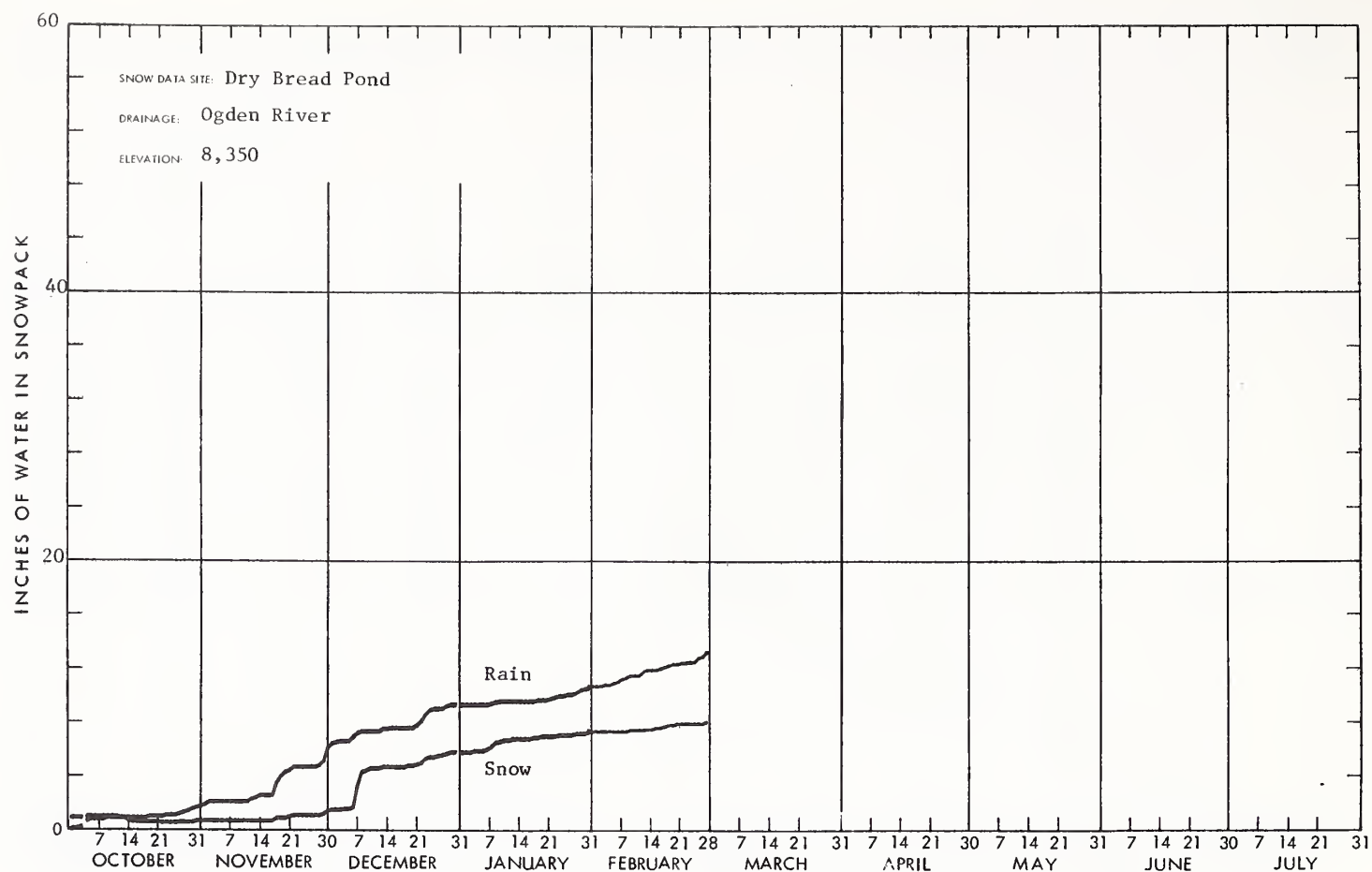


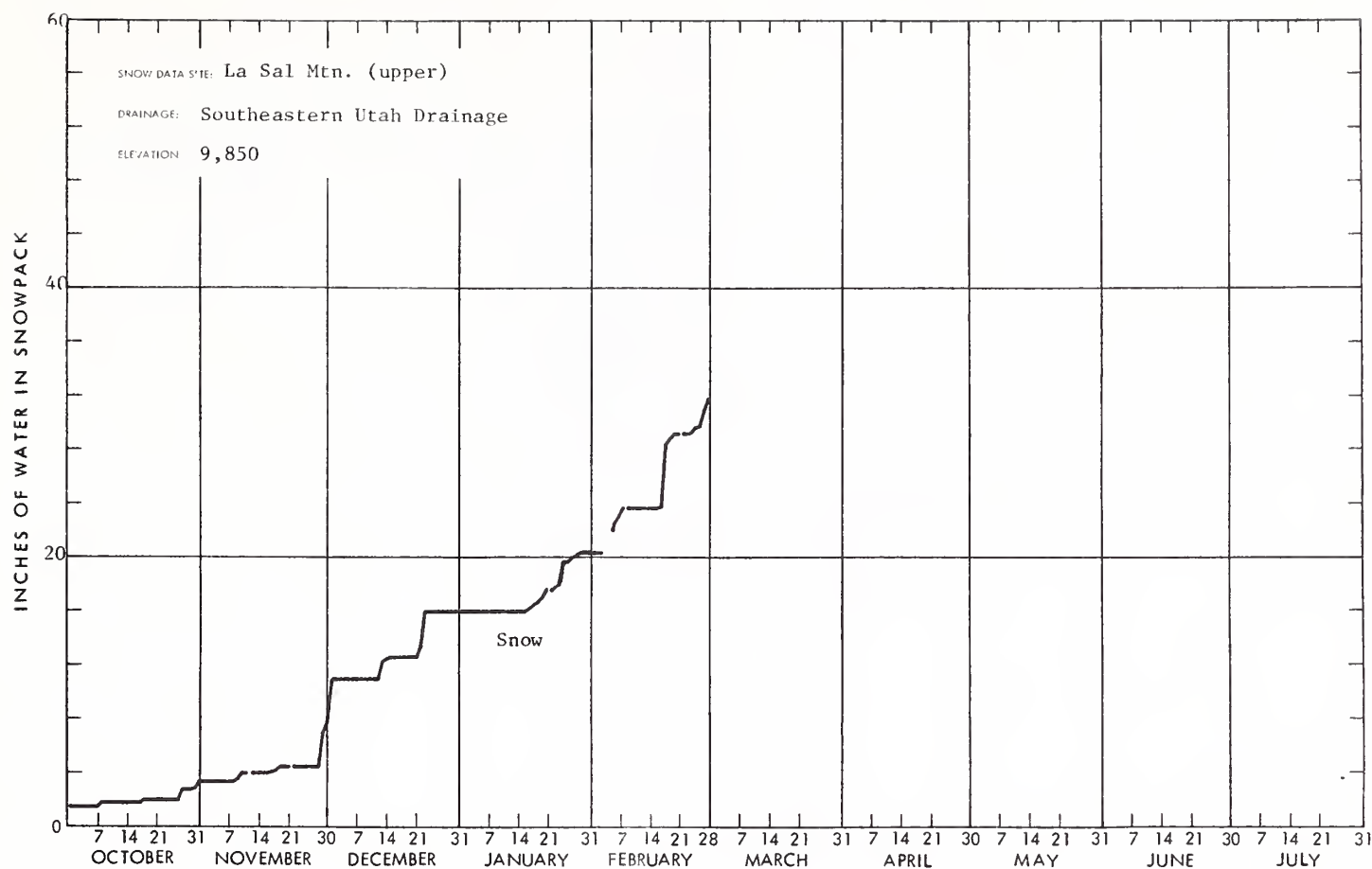






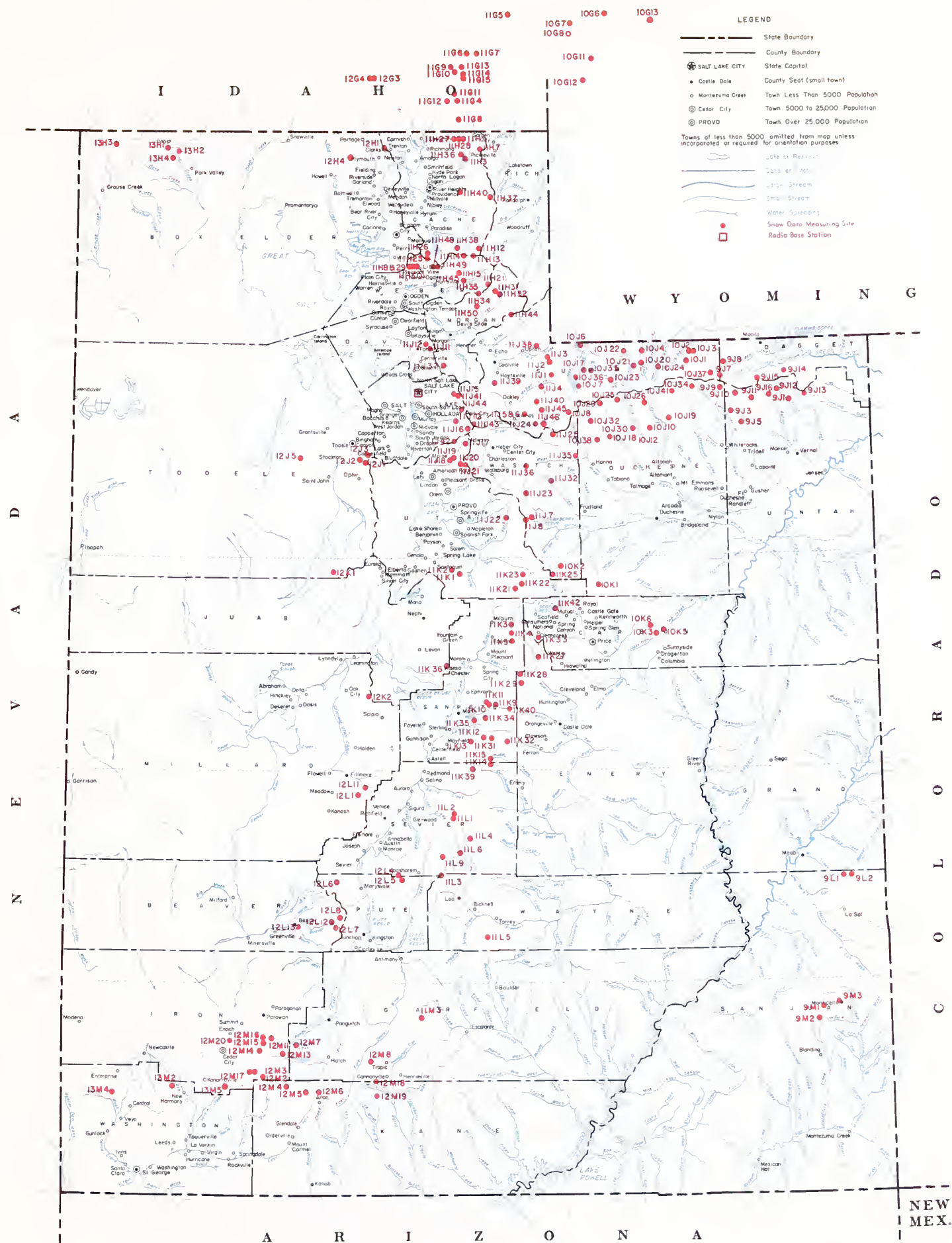












INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

GREAT BASIN DRAINAGE

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.	NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
UPPER BEAR RIVER (above Harer, Idaho)													
10G11	W	Big Park	7	27N	117W	8,700	11J25P	U	Soapstone R.S.	9	3S	BE	7,800
10J16P	W	Burt's-Miller Ranch	19	3N	10E	7,900	11J19	U	South Fork R.S.	24	4S	2E	6,100
10G7	W	CCC Camp x	9	29N	118W	7,500	11J18	U	Timpanogas Cave Camp	27	4S	2E	5,500
10J36p	W	Gold Hill	15	1N	9E	10,000	10J8PST	U	Timpanogas Divide	33	4S	3E	8,140
10J7PST	U	Hayden Fork	25	1N	9E	9,400			Trail Lake	5	2S	9E	9,960
10G12	W	Kelly Ranger Station	13	26N	118W	8,200							
10J35p	W	Lily Lake	14	6N	14E	8,050							
10J36P	W	Monte Cristo R.S.	4	8N	14E	8,050							
10J37PST	W	Payson R.S.	29	30N	116W	8,500							
10G8P	W	Salt River Summit x	32	29N	118W	7,900							
10G13MP	W	Snyder Basin x	15	29N	115W	8,400							
10J17P	U	Stillwater Camp	32	2N	10E	8,550							
LOWER BEAR RIVER (below Harer, Idaho)													
11H37pST	U	Bug Lake	18	11N	5E	7,950	12J2	U	Bevan's Cabin	24	4S	4W	6,450
11G11	U	Christensen Ranch	27	13S	41E	5,400	12J5P	U	Deseret Peak	15	4S	7W	9,250
11H38p	U	Cinnamon Creek	5	8N	3E	7,300	11J41P	U	Lamb's Canyon #2	21	1S	3E	7,500
12H1p	U	Clarkston Mountain	29	5N	13E	7,950	12J3P	U	Madole Canyon	28	4S	3W	7,000
11G12	U	Cub River-Ranger Station	5	15S	41E	5,400	11J44P	U	Mill D-South Fork	18	2S	2E	7,900
11G14p	U	Dry Basin	30	13S	42E	7,900	12J10	U	Rocky Basin-Settlement Canyon	30	4S	3W	8,400
11G15	U	Emigrant Summit	21	12S	42E	6,350	11J10P	U	Silver Lake (Brighton)	35	2S	3E	8,725
11G6	U	Franklin Basin	24	12S	42E	6,350	11J42	U	Snow Bird (Gad Valley)	18	3S	3E	9,700
11G8PST	U	Garden City Summit	34 & 35	14N	4E	8,000	12K1PST	U	Vernon Creek	21	10S	5W	7,500
11H7MP	U	Herd Hollow	3	11N	3E	7,200							
11H40p	U	Honshoe Basin	31	13S	42E	8,000							
11G15p	U	Klondike Narrows	10	14N	3E	7,400							
11H1MP	U	Liberty Springs	8,240	7	13S	42E	8,240						
11G13	U	Little Bear (lower)	16	8N	1E	6,000							
11H26	U	Little Bear (upper)	22	8N	1E	6,550							
11H28PST	U	Oxford Mountain	32	13S	37E	6,800							
12G3	U	Slug Creek Divide	15	10S	44E	7,225							
11G5	U	Sheep Hollow #1	7	14N	3E	8,500							
11H27	U	Steep Hollow #2	9	14N	3E	7,700							
13H44P5	U	Strawberry Creek	9	13S	41E	5,800							
11G9	U	Strawberry Mink Divide	14	13S	41E	6,800							
11H36PST	U	Tony Grove Lake	1	13N	3E	8,400							
11H3MP	U	Tony Grove Ranger Station	11	13N	3E	6,250							
11G4P	U	Willow Flat	2	15S	41E	6,100							
RAFT RIVER													
13H2a	U	Clear Creek Meadows	26	14N	14W	9,050	12K12P	U	Oak Creek	9	17S	3W	7,760
13H1	U	Good Hope	17	14N	14W	7,300	11K39PST	U	Pickle Keg Springs	4	21S	3E	9,000
13H3a	U	One Mile Summit	17	14N	17W	7,670	12L1P5	U	Pine Creek	24	22S	4W	8,700
	U	VPont		14N	17W		11K36	U	Rees's Flat	20	15S	2E	7,300
OGDEN RIVER													
11H14M	U	Beaver Creek-Slunk Creek	22	8N	3E	7,150	12M16	U	Birch Crossing	23	35S	9W	8,100
11H8PST	U	Ben Leonard Peak	3	7N	1W	8,000	12M14	U	Brian Head	10	36S	9W	10,000
11H30 PST	U	Ben Leonard Trail	34	7N	1W	6,000	12M15P	U	Tall Poles	26 & 35	35S	9W	8,800
11H35p	U	Causey Dam	32	7N	3E	5,500	12M11P	U	Yonkee Reservoir	20	35S	8W	8,700
11H13MPST	U	Dry Bread Pond	19	8N	4E	8,350							
11H34p	U	Guidler's Peak	21	6N	4E	8,050							
11H45p	U	Middle Fork Ogden	16	7N	2E	8,420							
11H49	U	Powder Mountain Hiceway	6	7N	2E	8,250							
11H48	U	Powder Mountain Sundown	1	7N	1E	8,400							
11H15P	U	Sagebrush Flat	21	7N	3E	6,300							
WEBER RIVER													
11J24	U	Beaver Creek R.S.	28	2S	7E	7,500	13M4MP	U	Little Grassy Creek	14	38S	18W	6,100
11J2PST	U	Chalk Creek #1	4	1N	8E	9,100	13M2MPST	U	Long Flat	2	38S	14W	8,000
11J2MP	U	Chalk Creek #2	29	2N	8E	8,200							
11J3MP	U	Chalk Creek #3	7	2N	8E	7,500							
11J45a	U	East Shingle Lake	6	2S	8E	9,750							
11J12P	U	Farmington Canyon (lower)	15	3N	1E	6,950							
11H44p	U	Farmington Canyon (upper)	23	3N	1E	8,000							
11J11PST	U	Francis Canyon	29	5N	2E	7,400							
11J37P	U	Hardscrabble	22	7N	2E	6,700							
11H31	U	Kearney Creek	20	6N	5E	8,260							
11H32P	U	Lost Creek	22	6N	5E	7,300							
11H33	U	Lost Creek	27	6N	5E	7,300							
11J42P	U	Park City Summit	30	2S	4E	9,300							
11J15PST	U	Porley's Canyon Summit	5	1S	3E	7,500							
11H50	U	Pine Canyon	6	5N	4E	8,000							
11J38p	U	Porcupine	22	3N	7E	8,100							
11J6	U	Redden Mine (lower)	1	2S	6E	8,500							
11J5P	U	Redden Mine (upper)	1	2S	6E	9,000							
11J39p	U	Sergeant's Lakes	22	1N	6E	8,300							
11J46P	U	Shingle Mill Flat	22	1N	7E	7,040							
11J4PST	U	Smith & Morehouse	25	1N	7E	7,600							
PROVO RIVER & UTAH LAKE													
11J46PST	U	Beaver Creek Divide	25	2S	7E	8,280	9J11aP	U	Ashley Twin Lakes	20	1S	19E	10,500
11J20	U	Camp Altamont	29	4S	3E	7,300	10J21P	U	Black's Fork G.S.-East Fork	32	2N	12E	9,300
11K21PST	U	Clear Creek Ridge #1	8	11S	6E	9,200	10J22P	U	Black's Fork Junction	33	3N	12E	9,300
11K22PST	U	Clear Creek Ridge #2	19	11S	6E	9,200	10J23P	U	Burnt Ridge	3	1N	11E	8,925
11K23	U	Clear Creek Ridge #3	27	10S	6E	8,000	9J14P	U	Burnt Creek	4	1N	20E	7,900
11J17P	U	Dutchman R.S.	27	10S	6E	6,600	9J13P	U	Grizzly Ridge	8	1S	22E	8,500
11J22P	U	Hobble Creek Summit	27	7S	3E	7,560	10J24ap	U	Henny's Fork	29	2N	14E	10,000
11J38P	U	Lake Creek	36	4S	6E	7,420	10J45P	U	Hewinta G.S.	33	3N	13E	9,500
11J39	U	Payson R.S.	36	4S	6E	9,000	9J8P	U	Hickerson Park	23	2N	17E	9,100
11K2	U	Rock Bridge	10	10S	3E	8,050	9J15P	U	Highline Trail	13	2N	17E	9,250
			14	10S	3E	8,750	10J1	U	Hole-in-the-Rock	3	2N	17E	10,250
						6,750	10J3	U	Hole-in-the-Rock G.S.	32	3N	16E	8,300
UPPER GREEN RIVER IN UTAH (above Duchesne River)													
9J1PST	U	King's Cabin (upper)	22	1S	21E	8,730	10J17A	U	Snow Course Only				
McGee Park	U	McGee Park	6	1N	17E	10,680	10J17B	U	Snow Course and Reservoir				
Middle Beaver Creek	U	Middle Beaver Creek	31	3N	16E	8,650	10J17C	U	Snow Course and Reservoir				
Reynolds Park	U	Reynolds Park	9	1S	18E	10,400	10J17D	U	Snow Course and Aerial Marker				
Spirit Lake	U	Spirit Lake	10	1N	17E	10,300	10J17E	U	Snow Course, Soil Moisture Station and Precipitation Gauge				
Steel Creek Park	U	Steel Creek Park	17	2N	13E	10,100	10J17F	U	Snow Course, Soil Moisture Station and Aerial Marker				
Trout Creek	U	Trout Creek	9	1S	20E	9,400	10J17G	U	Storage Precipitation Gauge Only				
Windy Park	U	Windy Park	2	1S	20E	9,400	10J17H	U	Storage Precipitation Gauge- Snow Pillow and Temperature				
DUCHESNE RIVER													
Atwood Lake	U	Atwood Lake	13	4N	4W	10,840							
Brown Duck Ridge	U	Brown Duck Ridge	8	2N	6W	10,600							
Chapala-Whiterocks Lakes	U	Chapala-Whiterocks Lakes	3	4N	11W	10,350							
Current Creek	U	Current Creek	26	1S	11W	8,000							
Daniels-Shrawberry Summit	U	Daniels-Shrawberry Summit	20	7S	12W	8,000							
East Portal	U	East Portal	36	7S	6E	7,560							
Five Point Lake	U	Five Point Lake	28	4N	5W	11,000							
Indian Canyon	U	Indian Canyon	22	4N	10E	10,100							
Jordan Canyon	U	Jordan Canyon	22	3N	10E	10,100							
Kidney Lake	U	Kidney Lake	23	5N	3W	11,000							
Lakefork Basin	U												



# Agencies Cooperating in Utah Snow Surveys

## U. S. GOVERNMENT AGENCIES

- U. S. Department of Agriculture
  - Soil Conservation Service
  - Forest Service
- U. S. Department of Commerce
  - NOAA, National Weather Service
- U. S. Department of Interior
  - Bureau of Reclamation
  - Geological Survey
  - National Park Service

## STATE AGENCIES

- Utah State University
- Utah State Department of Natural Resources
  - Division of Wildlife Resources
  - Division of Water Resources
  - Division of Water Rights
  - Bear River Commissioner
  - Price River Commissioner
  - Provo River Commissioner
  - Sevier River Commissioners
  - Spanish Fork River Commissioner
  - Utah Lake and Jordan River Commissioner

## MUNICIPALITIES

- Manti
- Salt Lake City

## ORGANIZED PUBLIC AGENCIES

- Beaver River Water Users Association
- Board of Canal Presidents - Jordan River
- Central Utah Conservancy District
- Emery Canal and Reservoir Company
- Moon Lake Water Users Association
- Ogden River Water Users Association
- Provo River Water Users Association
- Strawberry Water Users Association
- Sevier River Water Users Association
- Weber River Water Users Association
- Weber Basin Conservancy District



UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
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domestic and municipal water  
supply, hydro-electric power  
generation, navigation,  
mining and industry

*"The Conservation of Water begins  
with the Snow Survey"*